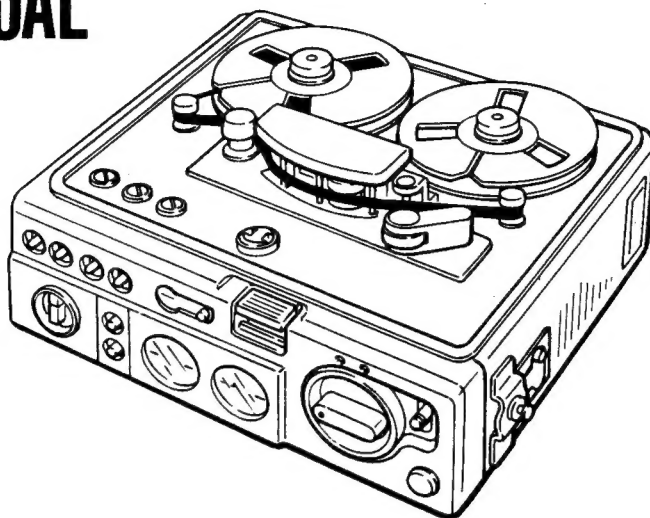


5873
APR-2003

SERVICE MANUAL

US Model
AEP Model



SPECIFICATIONS

Tape & Reel size	6.25 mm (1/4") 5" Reel	Monitor output (12V, 1kHz)	
Tape speed	19 cm/s (7 1/2 ips), 9.5 cm/s (3 3/4 ips)	Install speaker (16 ohm)	500 mW
Audio track width	2.1 m/m for each track	Headphones	1 mW (at 32 ohm)
REC LEVEL	185 nwb/m at 0 dB	Frequency response (AMPEX 456)	
Time code track width	0.38 ± 0.03 mm	19 cm/s	30 - 15000Hz ±2dB 25 - 18000Hz ±3dB
Time accuracy of audio & time code track	Less than 8 msec (at tape speed 19 cm/s)	9.5 cm/s	30 - 10000Hz ±2dB
LINE IN/MIC input (selectable) XLR type		Signal to Noise ratio (at 510nwb/m AMPEX 456)	
Min input level		19 cm/s	More than 58 dB 61 dB ("A" WEIGHTED)
	LINE: -10 dBs (-20 dBs - +20 dBs set by internal wiring)	9.5 cm/s	57 dB 60 dB ("A" WEIGHTED)
	MIC: -70 dBs -50 dBs (at 20 dB ATT) 0 dBs = 0.775 V	Total harmonic distortion (1kHz, 510nwb/m, AMPEX 456)	
Impedance	LINE: 47 kilohm balanced MIC: 10 kilohm balanced	19 cm/s	Less than 2%
DC POWER for MIC		9.5 cm/s	Less than 2.5%
	DC 48 V (7 mA/CH) or 12 V (10 mA/CH) A-B with OFF switch	Rec limiter characteristic	Suppressed 8 dB at +20 dB input
Time code input	XLR type	Warm-up time of power	Less than 1 sec
Input level	0.5 - 5 Vp-p	Erase efficiency (at 1kHz)	More than 70 dB
Impedance	10 kilohm, balanced		
Line output	XLR type		
Output level	0 dBs at 47 kilohm		
Impedance	600 ohm unbalanced		
EXT. NR Input & output	TUCHEL 7-p type		
Output level	0 dBs		
Impedance	100 ohm unbalanced		
Input level	0 dBs		
Impedance	47 kilohm unbalanced		

- Continued on page 2 -

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK
⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE
PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS
WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS
MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



AUDIO RECORDER
SONY®

TC

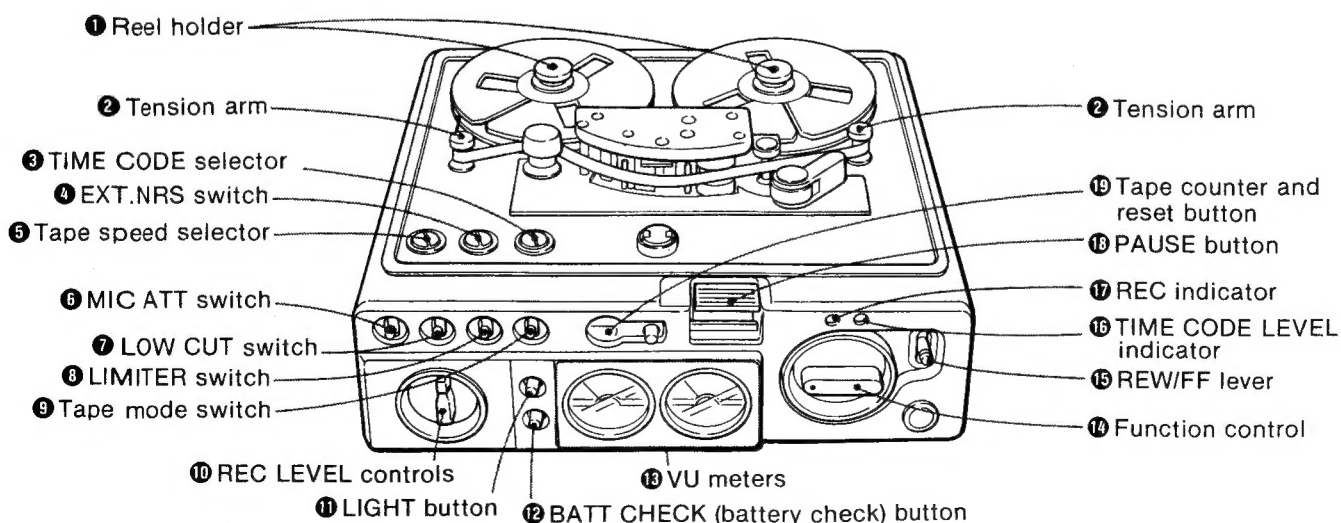
Crosstalk (at 1kHz)	
Between audio track	More than 45 dB
Audio track & time code track	80 dB
Bias frequency	160 kHz
Wow & Flutter	19 cm/s $\pm 0.08\%$ DIN, 0.05% WRMS NAB
	9.5 cm/s $\pm 0.12\%$ DIN, 0.08% WRMS NAB
Speed stability	19 cm/s & 9.5 cm/s $\pm 0.3\%$
FF/RWD TIME	Approx. 60sec (185 m tape)
TAPE COUNTER	3 digits mechanical
Power	
Power supply voltage and current necessary	DC 10-14 V, 2 A
Rechargeable battery (optional)	NP-1 (Battery life: More than 2H)
Ac adaptor (optional)	AC-500, AC-500CE
REC FWD Current	Approx. 700 mA (NP-1)
	Approx. 750 mA (EXT. DC)
FF/FWD Current	Approx. 700 mA (NP-1)
	Approx. 750 mA (EXT. DC)
Dimension	335(w) \times 140(h) \times 300(d) mm
	(13 $\frac{1}{4}$ \times 5 $\frac{5}{8}$ \times 11 $\frac{7}{8}$ ")
Weight	Approx. 6.7 kg (with NP-1)

SECTION 1 OUTLINE

FUNCTION OF CONTROLS

Each number in the text is keyed to the illustrations.

Front panel



① Reel holders

② Tension arms

③ TIME CODE selector

Normally, keep it at OFF.

For recording with the optional time code generator, set it to SMPTE/EBU. Time code recording can only be made when the tape speed selector is set to 19 cm/s (7½ ips).

④ EXT. NRS switch

For recording with a noise reduction unit, set this switch to NRS (ON).

For recording without noise reduction system, set it to NORMAL (OFF). Recording cannot be made with this switch set to ON when a noise reduction unit is not connected to the EXT. NRS connector.

⑤ Tape speed selector

Select a tape speed appropriate to the type of recording desired (19 cm/s, 7½ ips or 9.5 cm/s, 3¾ ips).

⑥ MIC ATT (microphone attenuator) switch

Set this switch to ON to attenuate the microphone input level by 20 dB.

⑦ LOW CUT switch

Set this switch to ON to attenuate frequencies lower than 100 Hz by 6 dB/oct.

⑧ LIMITER switch

Normally, leave it OFF.

Set it to ON to maintain the reference recording level and to eliminate undesirable distortion.

⑨ Tape mode switch (TAPE/SOURCE)

Set it to TAPE for tape playback. While recording, set it to TAPE for tape monitoring, and set it to SOURCE for source monitoring.

⑩ REC LEVEL controls

Varies the recording level. The outer knob controls CHANNEL 1 and the inner knob controls CHANNEL 2.

⑪ LIGHT button

Illuminates the VU meters as long as the button is pressed.

⑫ BATT CHECK (battery check) button

Keep pressed to check the battery condition during recording or playback. When the needle of the right VU meter registers outside the green zone, the battery should be recharged.

⑬ VU meters

Indicates the recording level when the tape mode switch is set to SOURCE. When the tape mode switch is set to TAPE, the meters indicate the playback level. (0 VU = 185 nwb/m (NAB))

⑭ TIME CODE LEVEL indicator

Lights up when a correct input signal is fed from the TIME CODE IN connector.

⑮ REC indicator

⑯ PAUSE button

Depress this button to pause momentarily during playback or recording. To release, press it again.

⑰ Tape counter and reset button

⑱ Function control

Set to PLAY for playback and to STOP to stop the tape.

To record, push and turn towards REC.

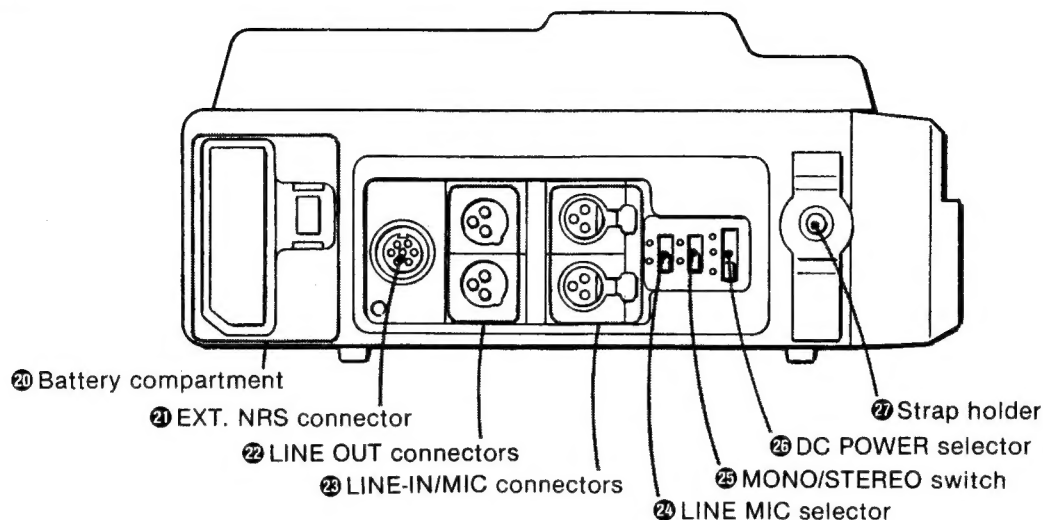
To activate this control, the REW/FF lever ⑲ must be at stop position.

⑲ REW/FF lever

Set the lever to REW to rewind the tape. Pull the lever and push down to FF to advance the tape rapidly.

To activate this lever, the function control ⑱ must be set at STOP.

Left side panel



20 Battery compartment

Insert an optional rechargeable battery pack Sony NP-1.

21 EXT. NRS connector

(Tuchel type, 7-P)

Connect a noise reduction unit here to record with the Dolby A NR system.

22 LINE OUT connectors

(XLR-3-32, unbalanced)

Produce the line output signals.

23 LINE IN/MIC connectors

(XLR-3-31, balanced)

Receive either line input or microphone signals according to the LINE/MIC selector setting.

24 LINE/MIC selector

Selects the input source connected to the LINE IN/MIC connectors.

25 MONO/STEREO switch (for microphone)

Set it to STEREO for stereo recording with two microphones. Set it to MONO for monaural recording with one microphone, in which case, the microphone must be connected to the CHANNEL 1 connector.

26 DC POWER selector (for microphone)

Selects a setting to match the microphone's power requirements. LINE IN/MIC connectors can supply 12 V dc (10 mA/channel) or 48 V dc (7 mA/channel) to externally powered microphones. Set the DC POWER selector to the appropriate position when the tape recorder is in the stop mode, otherwise a click sound may be heard. Use the following settings.

48 V: For phantom powered condenser microphones.

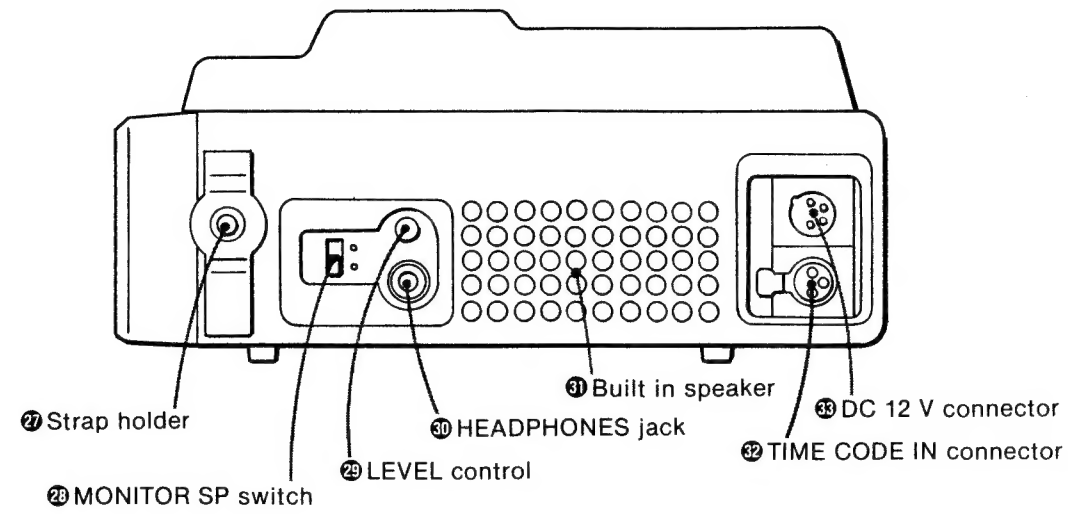
OFF: For microphones requiring no external power.

12 V A-B: For microphones with an AB feed powering system.

Set the DC POWER selector to 12 V A-B **only** for a microphone with an AB feed powering system. Otherwise, **the microphone may be damaged.**

27 Strap holder

Right side panel

**28 MONITOR SP switch**

Set this switch to ON to monitor from the built-in speakers during recording and playback. You can alter the volume of the built-in speaker by adjusting the LEVEL control.

29 LEVEL control

Varies the output level of the built-in speaker and the headphones. This control does not affect the VU meters or the output level of the LINE OUT connectors.

30 HEADPHONES jack

Accepts any low impedance stereo headphones. The output level can be varied with the LEVEL control. When the headphones are connected, the built-in speaker is automatically disconnected.

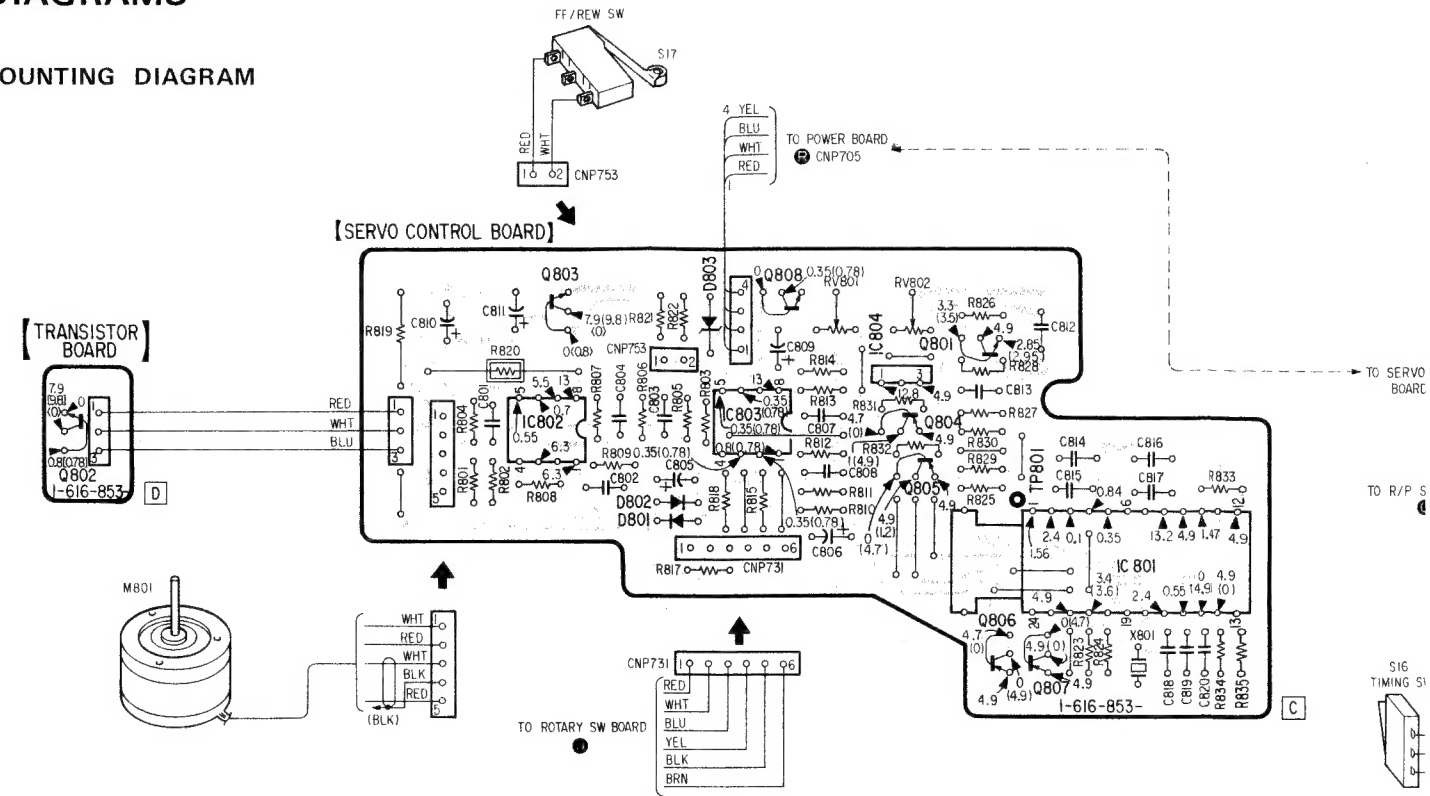
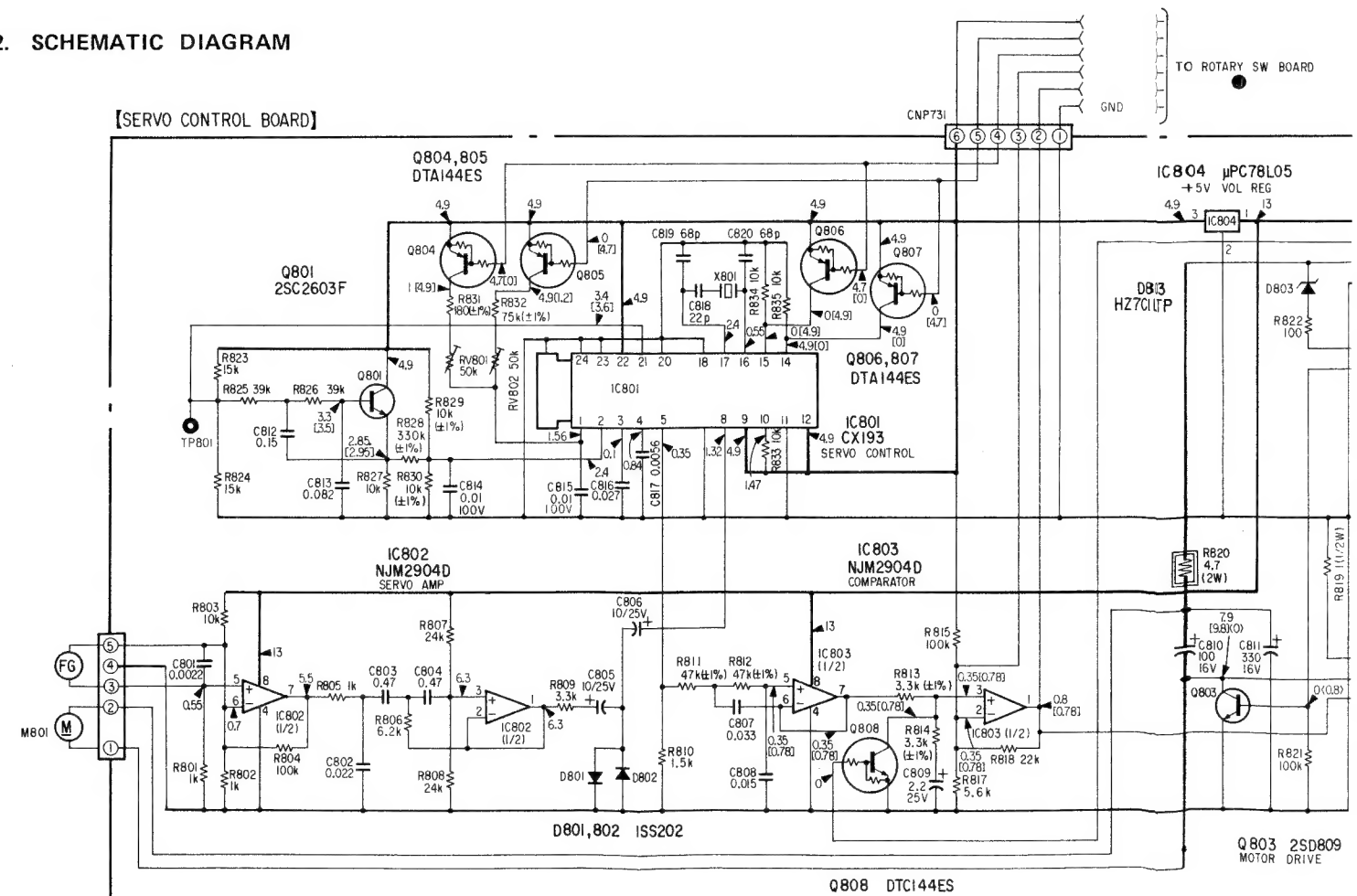
31 Built-in speaker**32 TIME CODE IN connector**

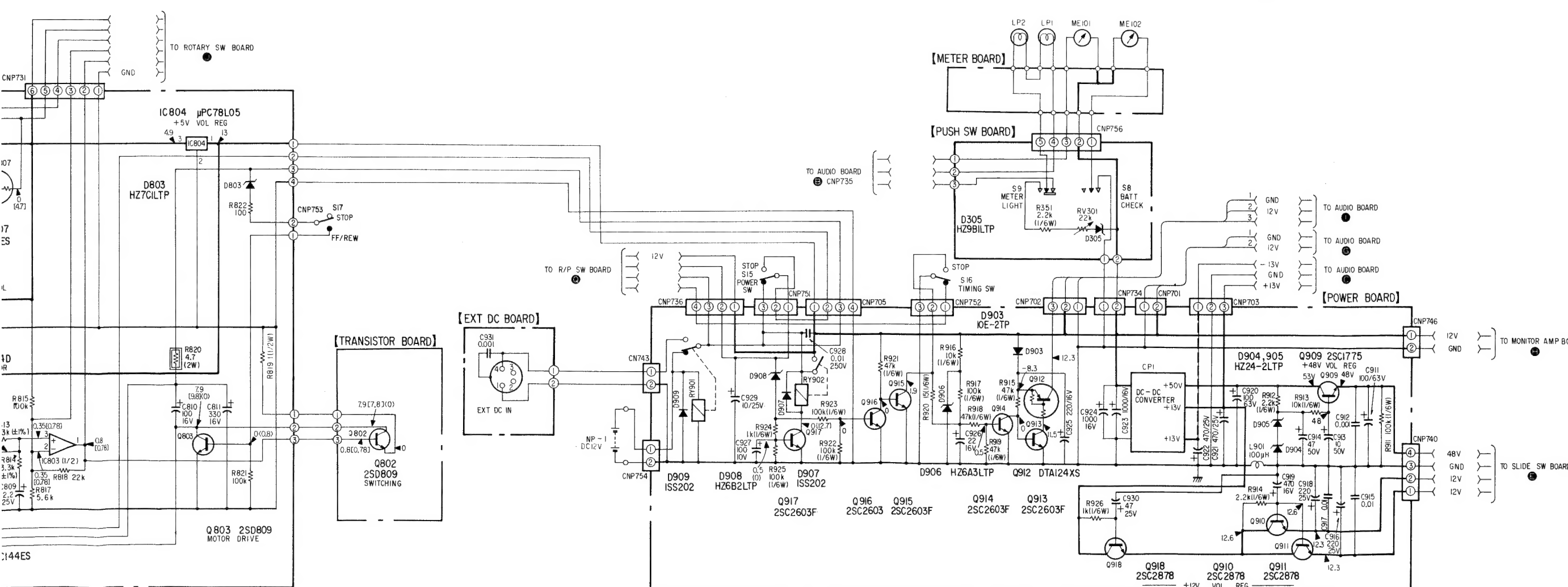
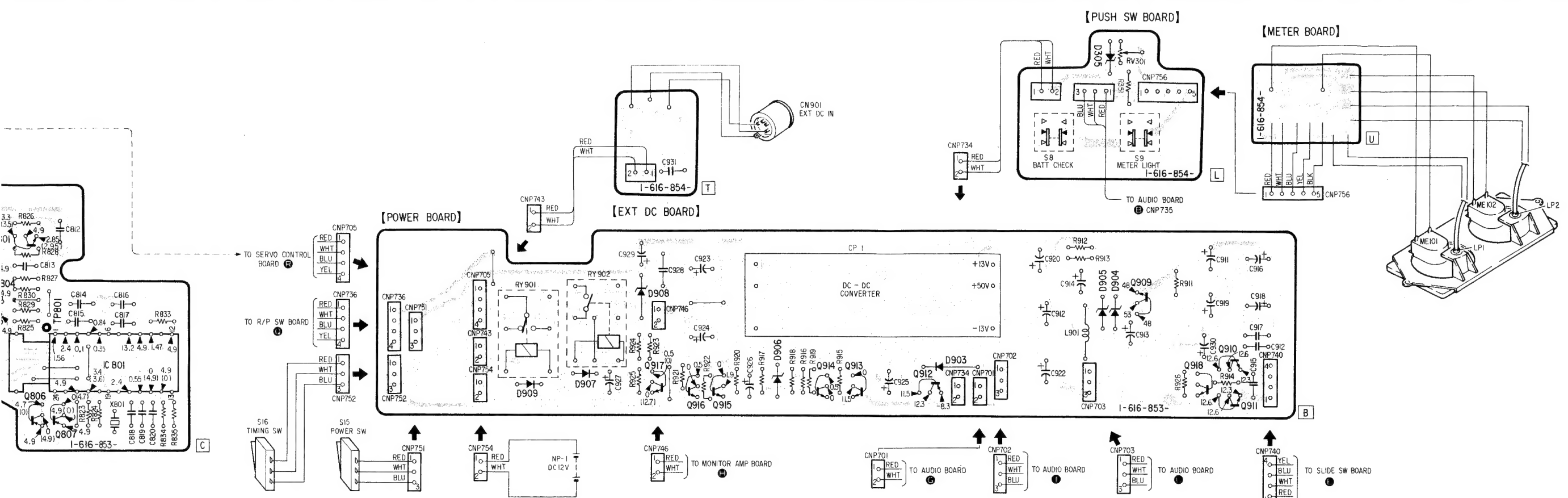
(XLR-3-31, balanced)
Accepts an optional time code generator such as the Sony BVG-100.

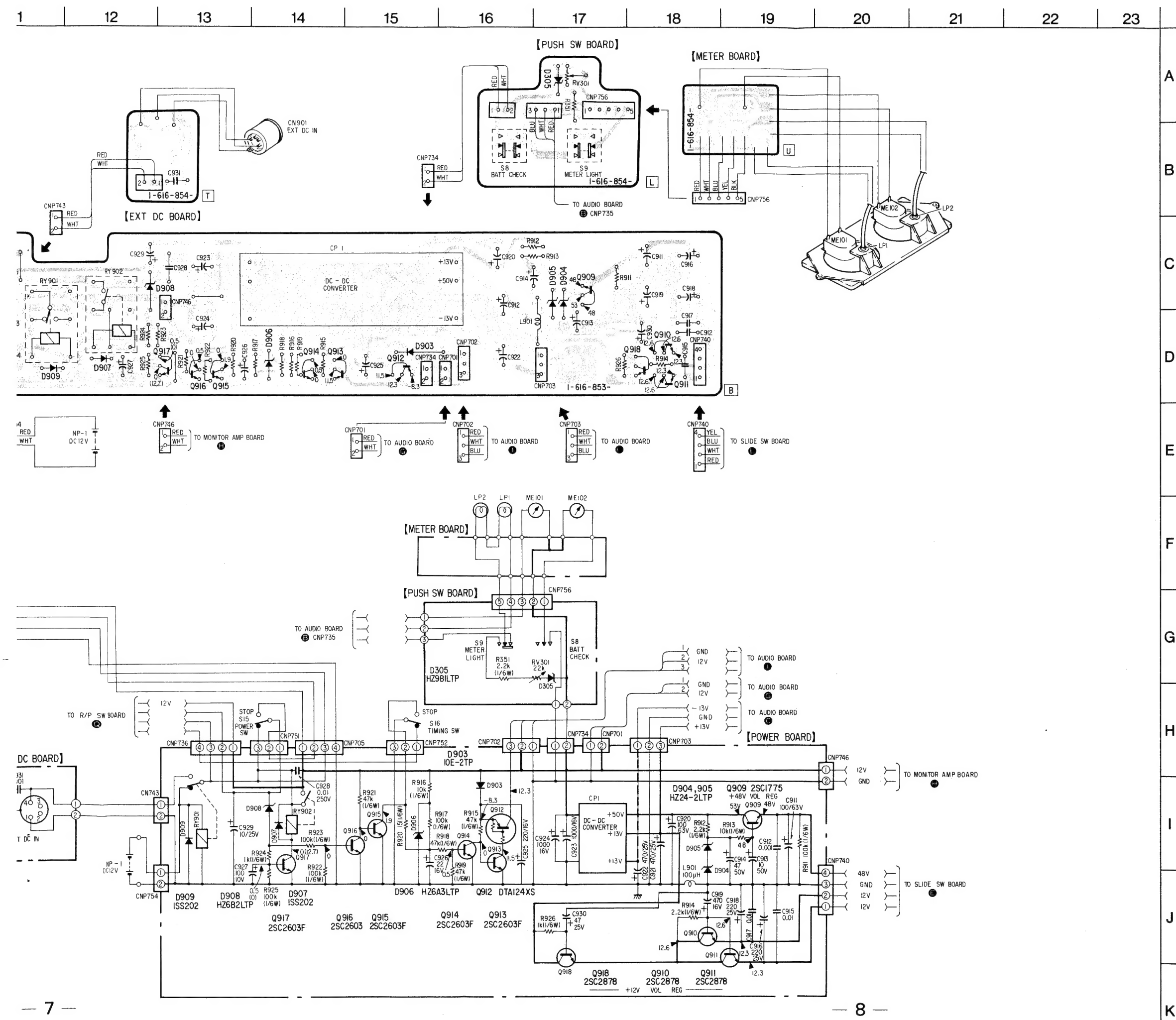
33 DC 12 V connector

(XLR-4-32)
Must be used only with the Sony AC-500/AC-500CE optional ac power adaptor.

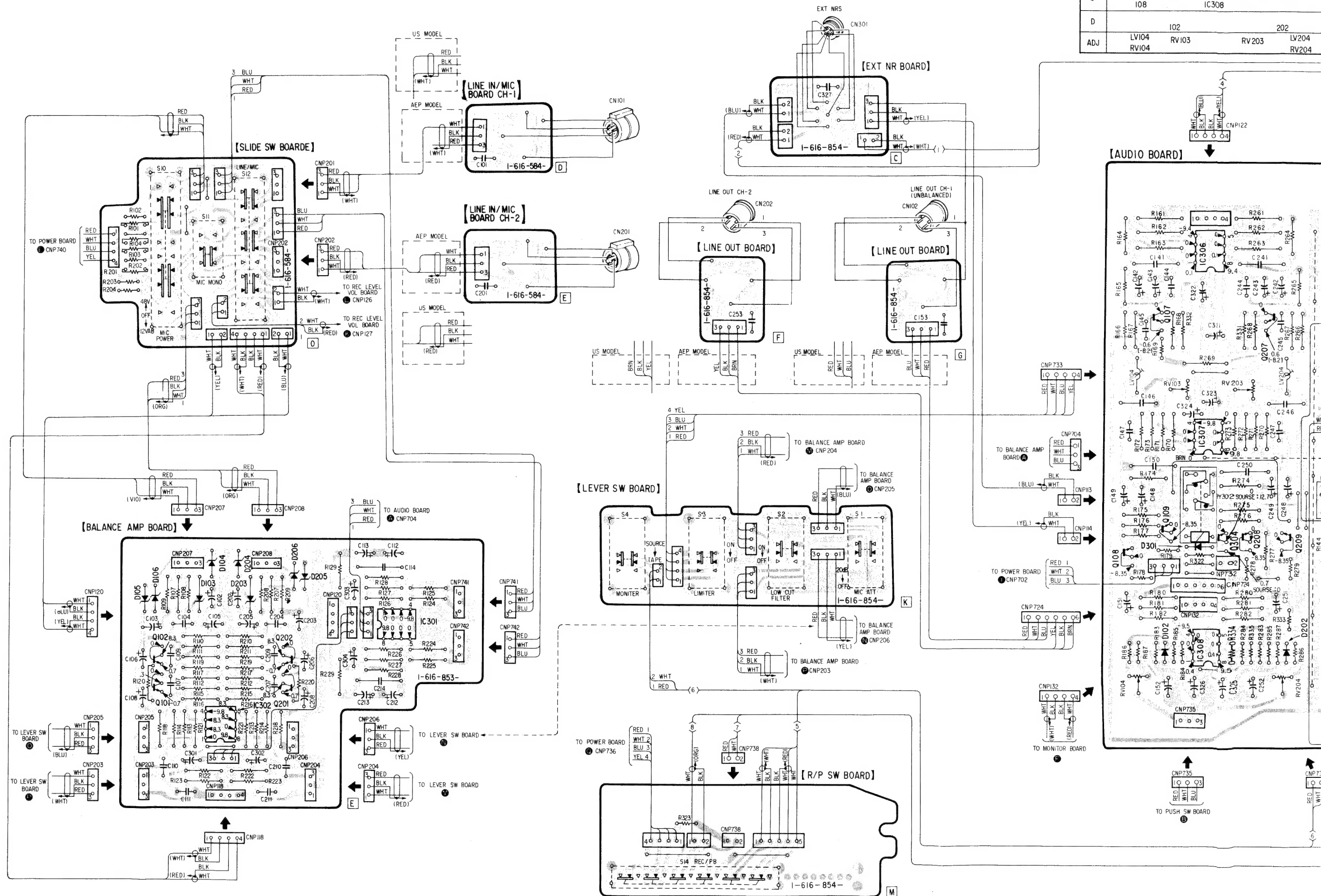
SECTION 2 DIAGRAMS

2-1. MOUNTING DIAGRAM**2-2. SCHEMATIC DIAGRAM**



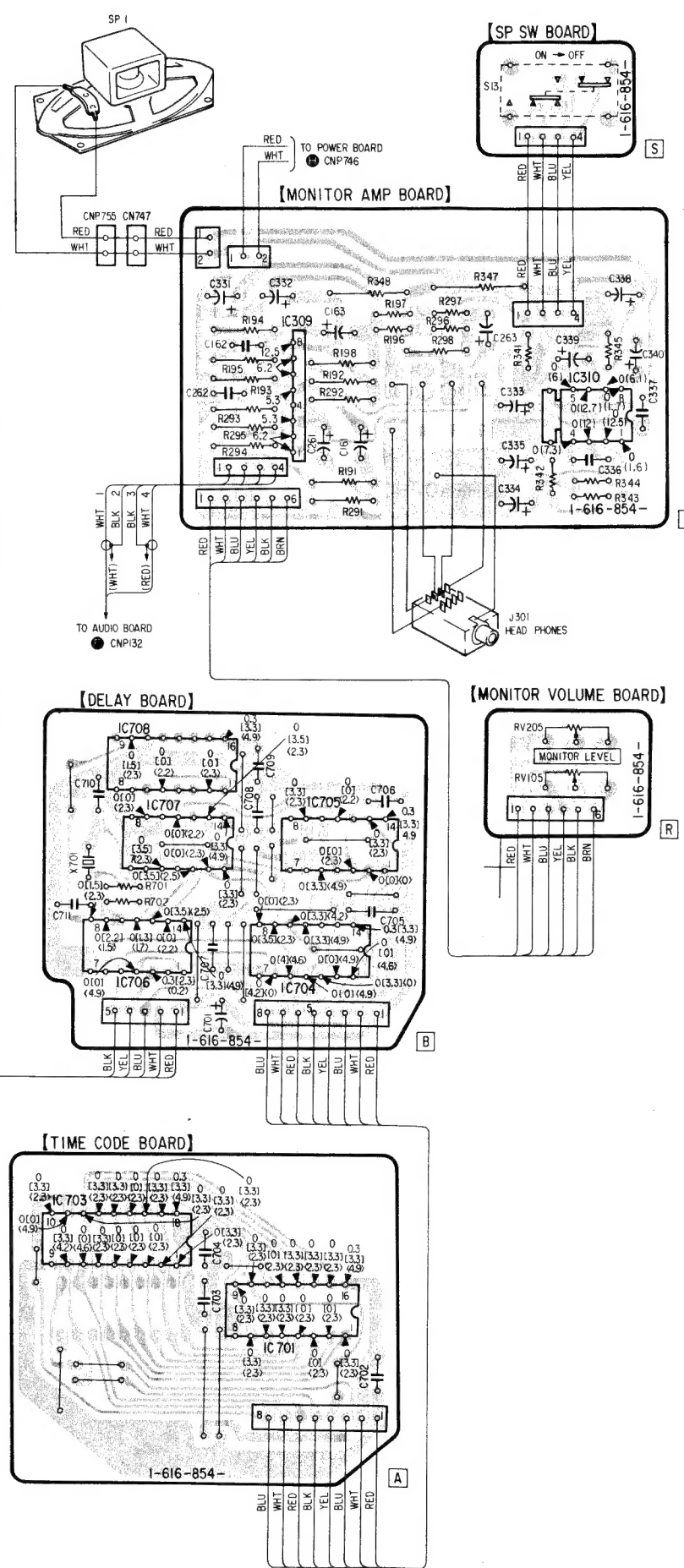
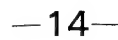


2-3. MOUNTING DIAGRAM

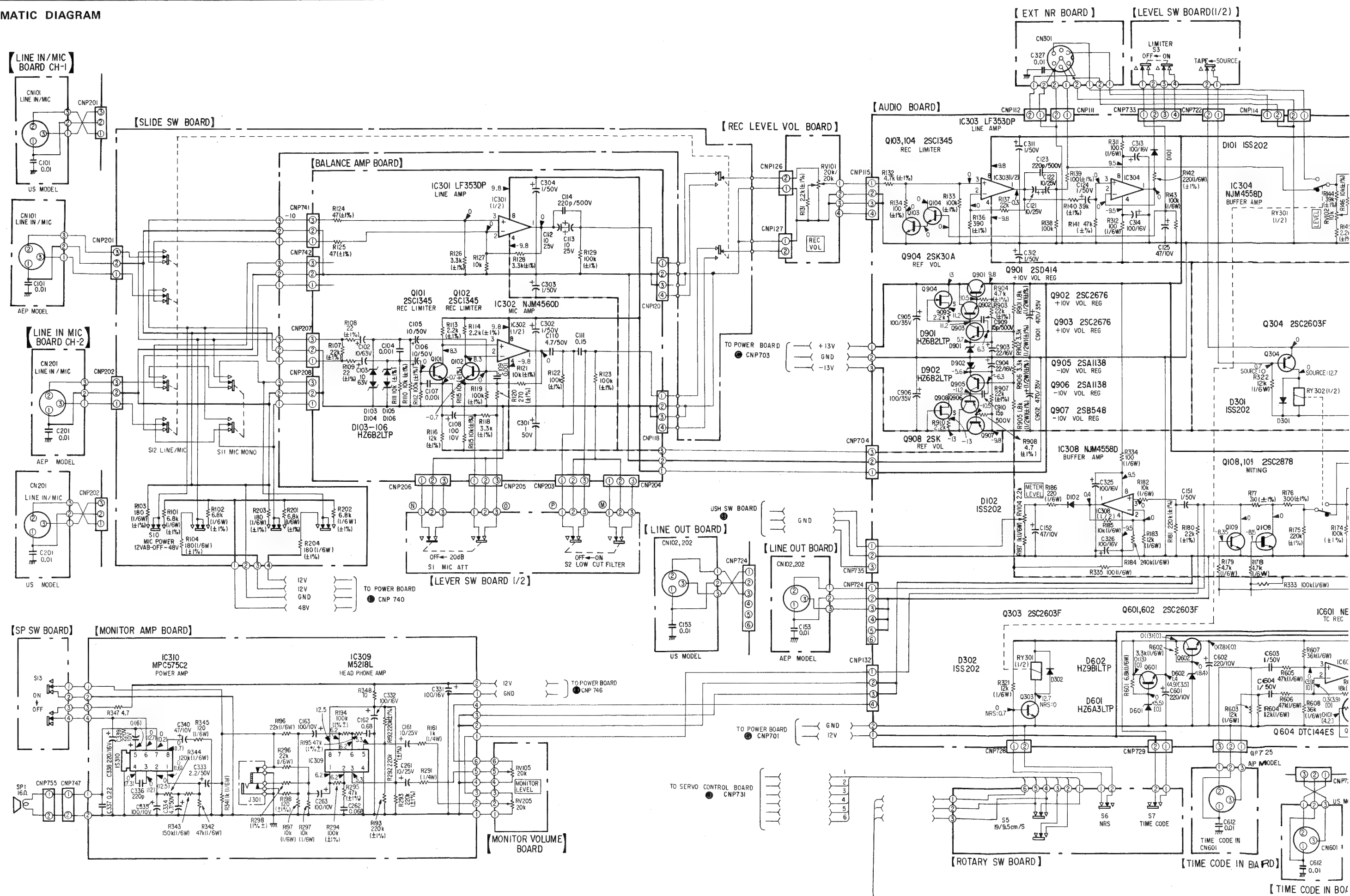


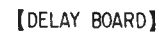
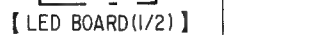
IC	107	IC306	207
Q	109	IC307	304 208 209
D	102		202
ADJ	LV104	RV103	RV203 LV204 RV204

— 13 —




2-4. SCHEMATIC DIAGRAM

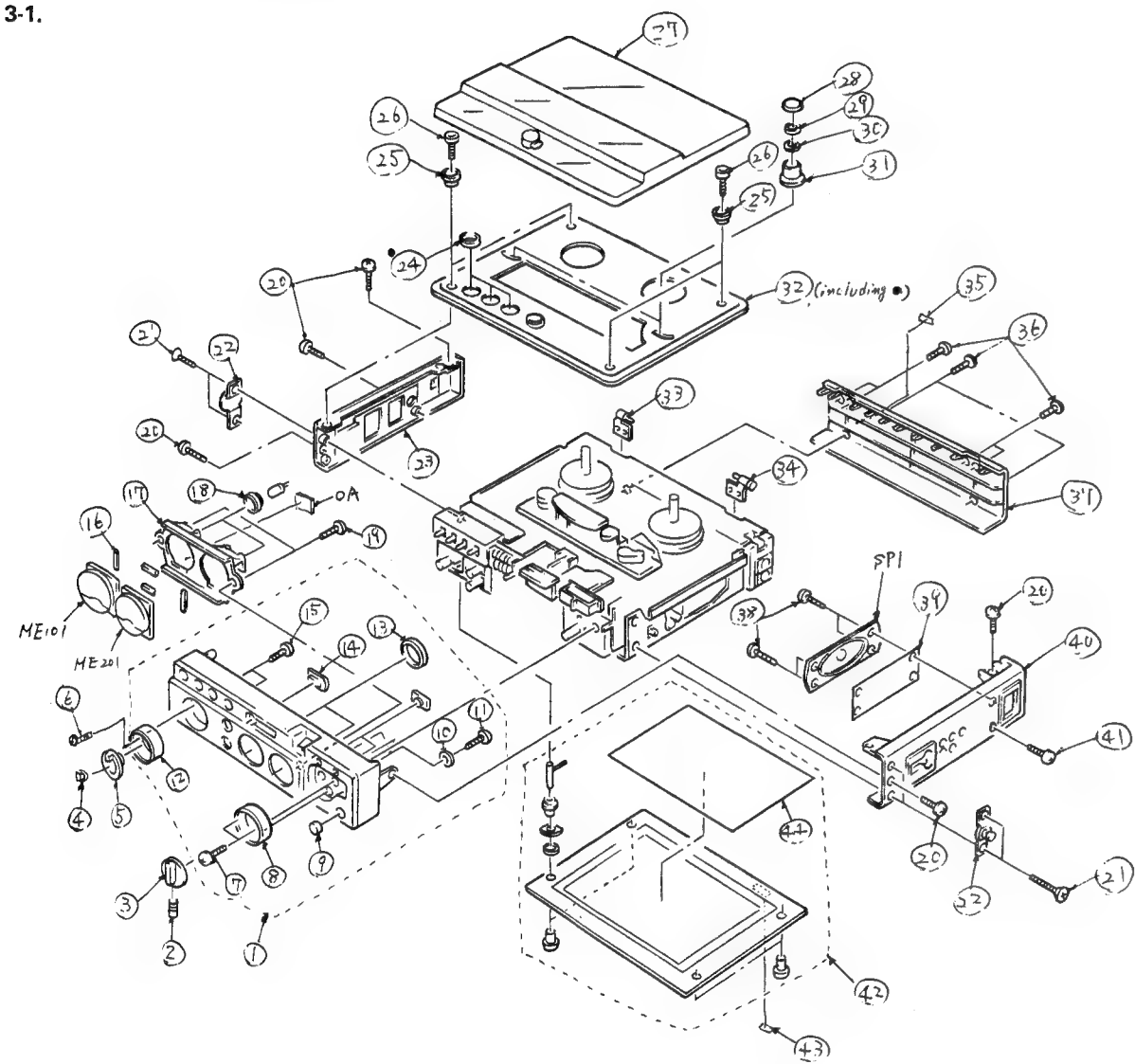




SECTION 3
EXPLODED VIEWS AND PARTS LIST

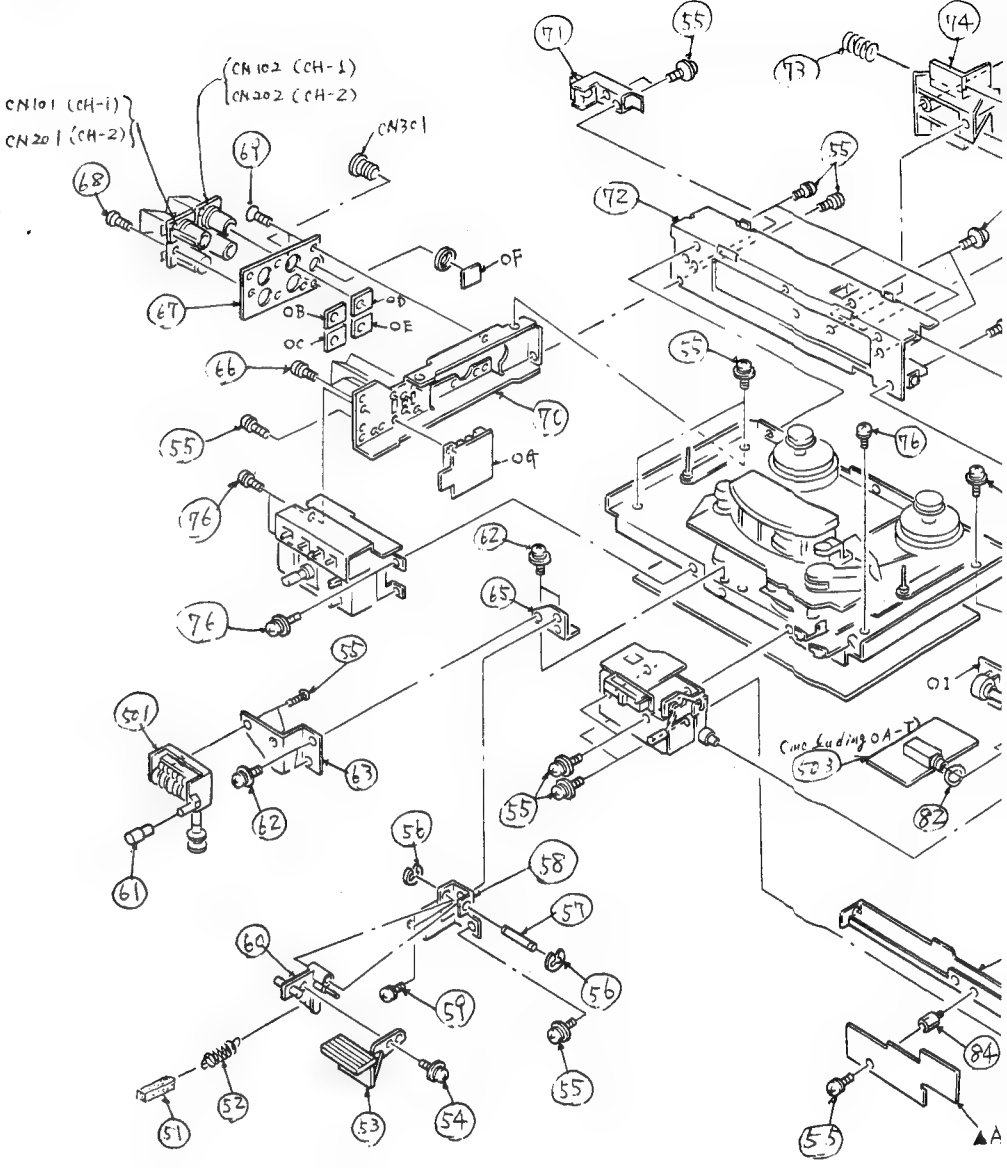
NOTE:
• The mechanical parts with no reference number in the exploded views are not supplied.
• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
• The construction parts of an assembled part are indicated with a collation number in the remark column.

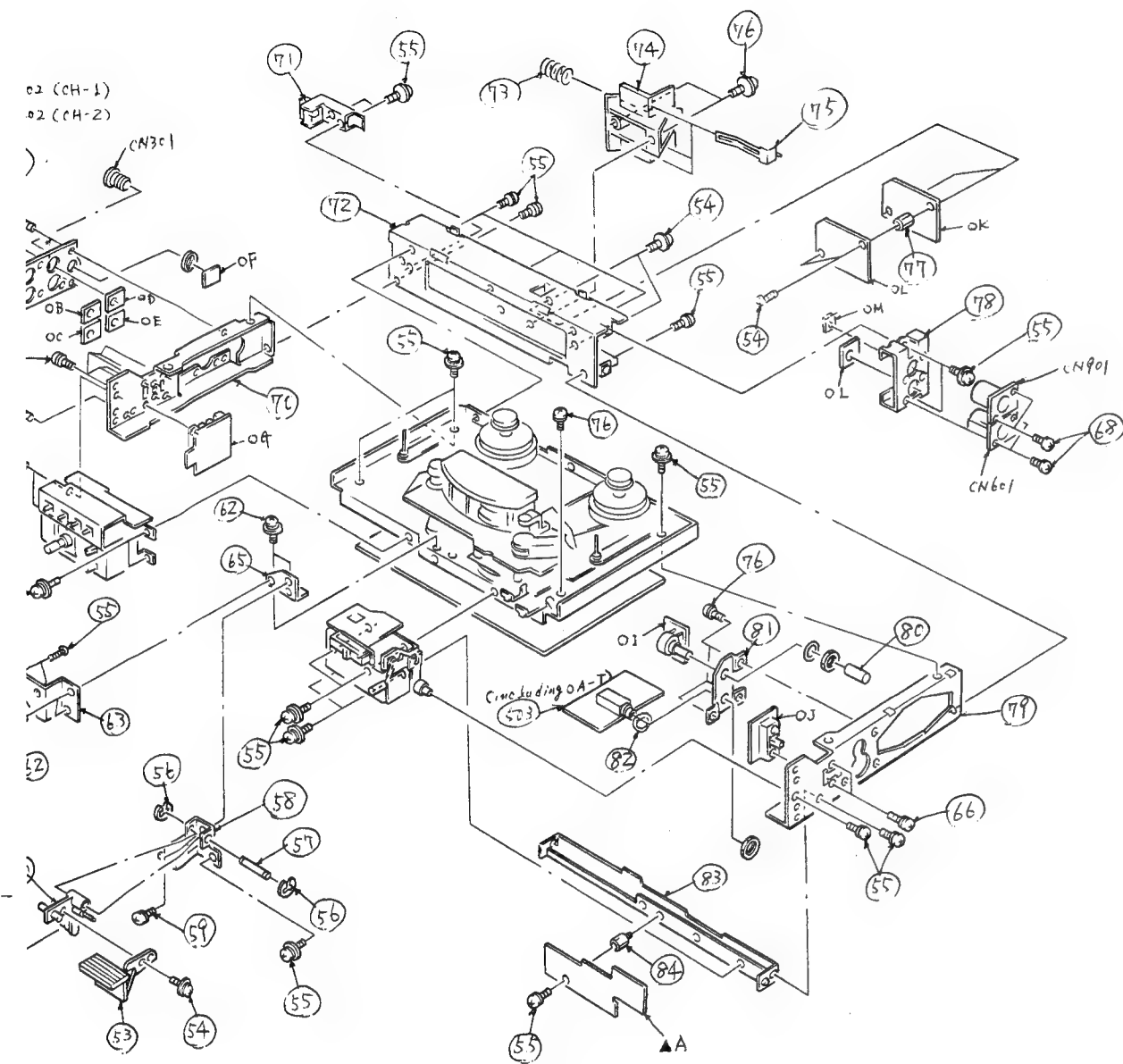
The components identified by shading and mark  are critical for safety. Replace only with part number specified.



No.	Part No.	Description
1	*X-3542-652-5	COVER ASSY, FRONT
2	7-683-247-31	SC 4X6, HEXAGON SOCKET
3	X-3542-654-2	CONVERTER ASSY
4	3-542-842-11	KNOB (R), RECORD LEVEL
5	3-542-843-11	KNOB (L), RECORD LEVEL
6	7-682-547-05	SCREW +B 3X6
7	7-682-947-01	SCREW +PSW 3X6
8	*3-542-723-11	ESCUTCHEON, SELECTOR
9	X-3542-653-4	EMBLEM ASSY
10	7-688-001-01	W 2, SMALL
11	7-621-255-45	SCREW +P 2X6
12	*3-542-722-11	ESCUTCHEON, CONTROL
13	*3-542-721-11	ESCUTCHEON, METER
14	3-542-720-00	WINDOW, COUNTER
15	7-682-224-01	SCREW +K 2X4
16	9-911-815-02	CUSHION
17	*3-542-814-00	BRACKET, METER
18	3-442-022-02	HOLDER, LAMP
19	7-682-547-01	SCREW +B 3X6
20	7-682-546-05	SCREW +B 3X4
21	7-682-253-05	SCREW +K 3X20
22	X-3542-659-0	BRACKET ASSY, STRAP
23	X-3329-205-1	PLATE (LEFT) (B) ASSY, SIDE
24	3-329-212-01	RING (B), ORNAMENTAL, KNOB
25	3-542-830-11	SPACER, PANEL
26	7-621-996-04	BOLT, HEXAGON SOCKET 2.6X6
27	X-3329-209-1	PROTECTOR ASSY, DUST
28	3-542-791-03	ROLLER (A), TENSION
29	7-624-102-04	RING, RETAINING E-1.5
30	3-701-437-01	WASHER
31	X-3542-616-5	ROLLER (B) ASSY, TENSION
32	X-3329-208-1	PANEL ASSY (B), REEL
33	X-3542-668-0	HINGE (E) ASSY
34	X-3542-658-0	HINGE (B) ASSY
35	*3-329-201-01	LABEL, MODEL NUMBER
36	7-683-403-04	BOLT, HEXAGON SOCKET 3X6
37	3-542-875-11	PLATE, CABINET BOTTOM
38	7-685-144-11	SCREW +P 3X5 TYPE2 NON-SLIT
39	3-542-896-00	NET, SPEAKER
40	X-3329-206-1	PLATE (RIGHT) (B) ASSY, SIDE
41	7-682-550-05	SCREW +B 3X12
42	X-3329-204-1	LID ASSY, REAR
43	*3-329-901-01	LABEL, CAUTION, BOTTOM PLATE
44	3-542-899-03	PLATE, REAR LID SHIELD
45	2-362-388-21	LID, BATTERY
46	2-362-324-00	SHAFT, BATTERY LID
47	3-329-206-01	SPRING (A), TORSION
48	*3-542-724-00	BRACKET (RIGHT), FRONT COVER
49	*3-542-725-00	BRACKET (LEFT), FRONT COVER
50	7-682-246-01	SCREW +K 3X5
ME101	1-520-484-11	METER, LEVEL
ME201	1-520-484-21	METER, LEVEL
SP1	1-502-541-00	SPEAKER, CONE

3-2.

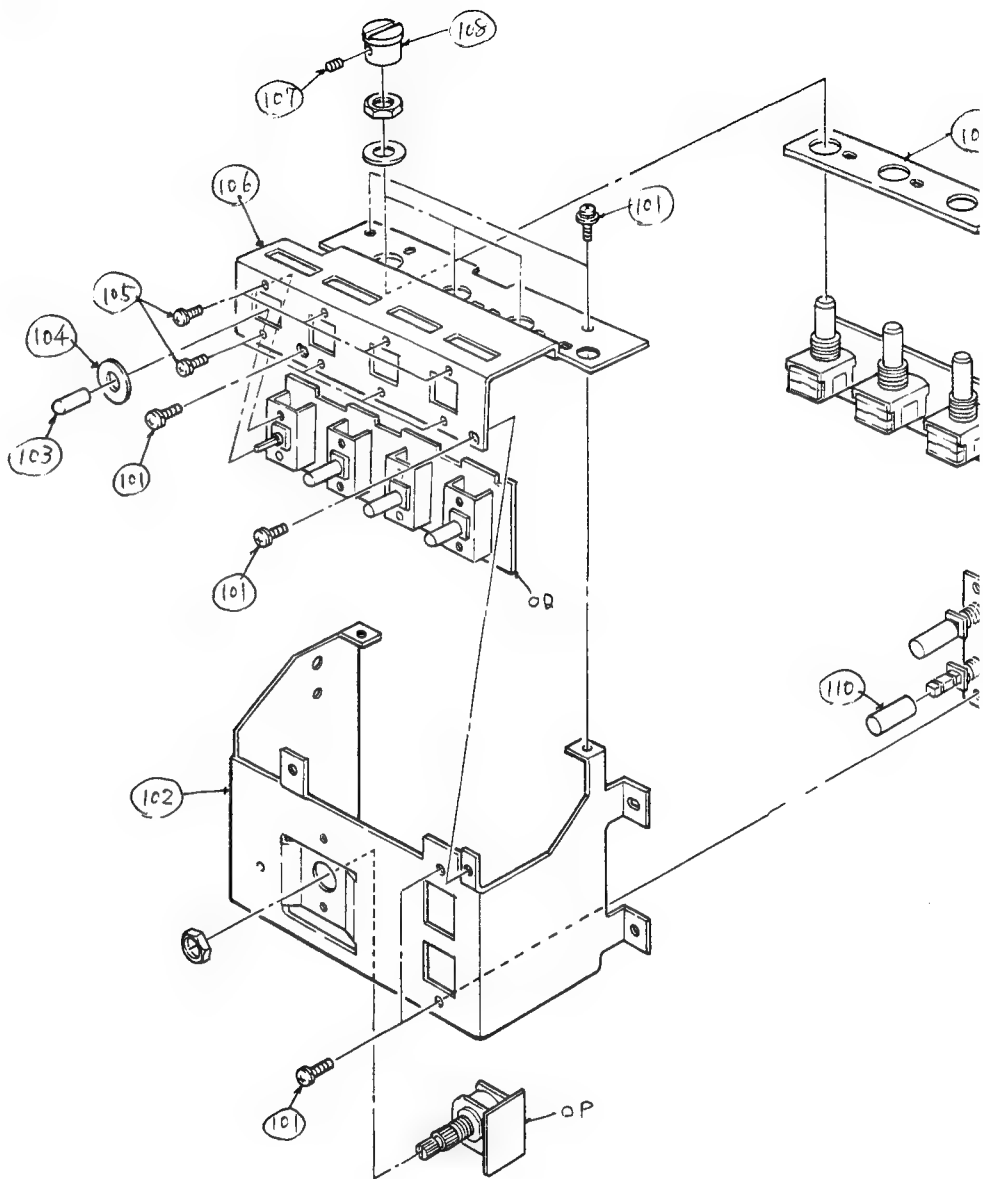




No.	Part No.	Description
51	9-911-815-02	CUSHION
52	4-812-471-XX	SPRING, TENSION
53	3-542-847-11	KNOB
54	7-621-759-65	+PSW, 2.6X8
55	7-682-947-01	SCREW +PSW 3X6
56	7-624-106-04	RING, RETAINING E-3
57	*3-542-792-00	SHAFT, CONTROL LEVER
58	*X-3542-637-0	HOLDER ASSY, BUTTON, PAUSE
59	7-628-153-25	SCREW +PSW 2X6
60	*X-3542-638-0	LEVER ASSY, INSTANT STOP DRIVE
61	3-542-855-11	BUTTON, COUNTER RESET
62	7-621-759-45	+PSW, 2.6X6
63	*3-542-806-00	BRACKET, COUNTER
65	*3-542-769-00	HOLDER, PAUSE BUTTON
66	7-628-254-05	SCREW +PS 2.6X5
67	*3-329-211-01	BRACKET (P), CONNECTOR
68	7-621-259-32	SCREW +P 2.6X5
69	7-621-559-38	SCREW +K 2.6X5
70	*3-329-224-01	BRACKET (L), CONNECTOR
71	X-3329-203-1	HOLDER (B) ASSY, KNOB
72	*3-329-227-01	JOINT (B)
73	2-362-385-00	SPRING, COMPRESSION
74	3-329-223-01	CASE, BATTERY
75	3-669-526-00	TERMINAL
76	7-682-647-01	SCREW +PS 3X6
77	*3-329-210-01	SPACER, PC BOARD
78	*3-329-208-01	BRACKET, SOCKET
79	*3-542-810-00	BRACKET (RIGHT), JACK
80	3-542-845-00	KNOB, CONTROL
81	*3-542-811-00	BRACKET, HEAD JACK
82	*4-886-571-00	LUG, JACK
83	*3-542-815-00	PLATE, REINFORCEMENT
84	4-870-206-85	SUPPORT, PC BOARD
501	1-548-508-00	TIMER, TAPE
503	*A-2056-299-A	MOUNTED PCB, SWITCH
CN101	1-509-184-31	CONNECTOR (RECEPTACLE) 3P
CN102	1-509-176-31	CONNECTOR (RECEPTACLE) 3P
CN202	1-509-176-31	CONNECTOR (RECEPTACLE) 3P
CN201	1-509-184-31	CONNECTOR (RECEPTACLE) 3P
CN301	1-562-973-11	SOCKET, CONNECTOR 7P
CN601	1-509-184-31	CONNECTOR (RECEPTACLE) 3P
CN901	1-509-177-31	CONNECTOR (RECEPTACLE) 4P

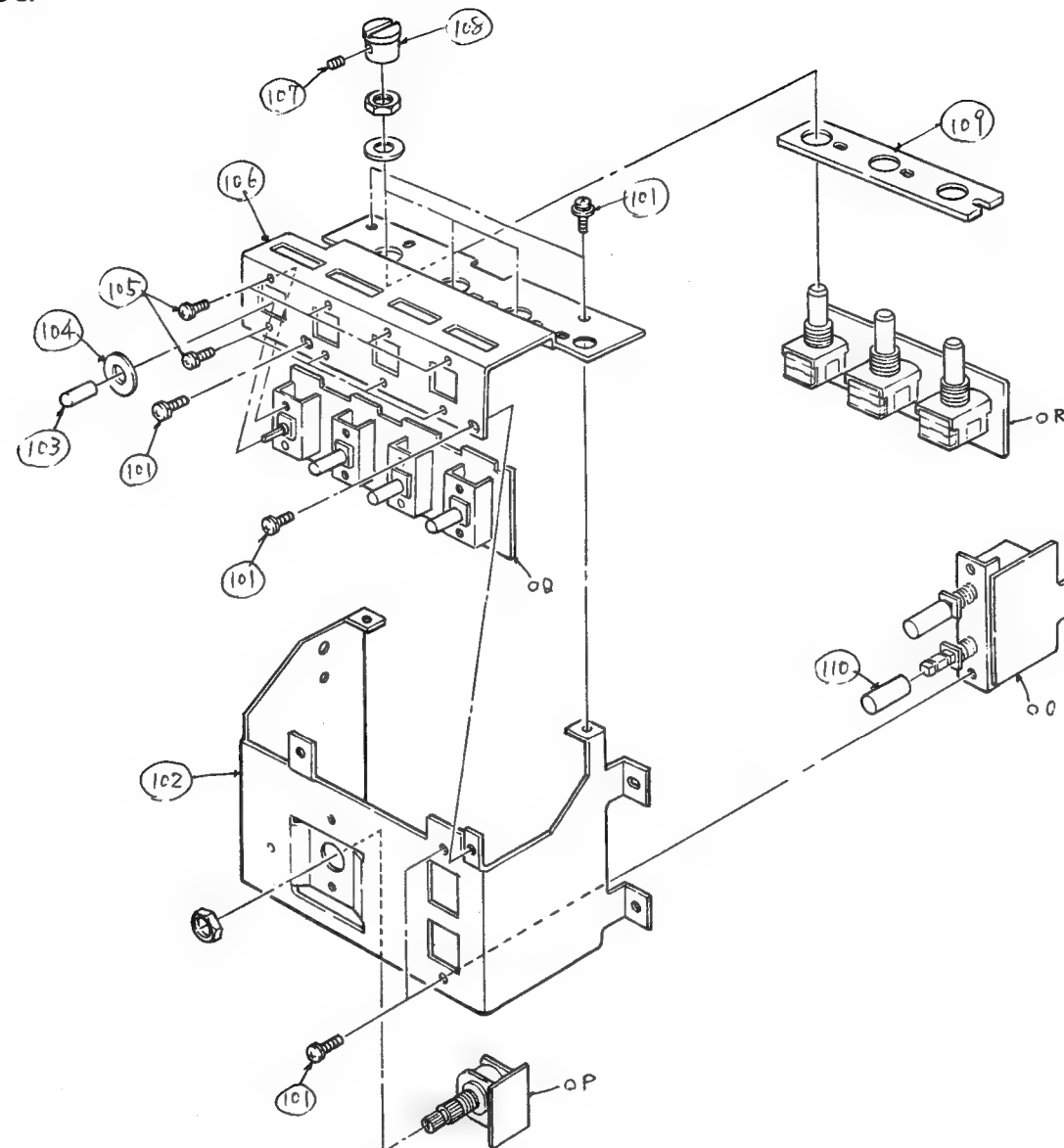
Remarks

3-3.



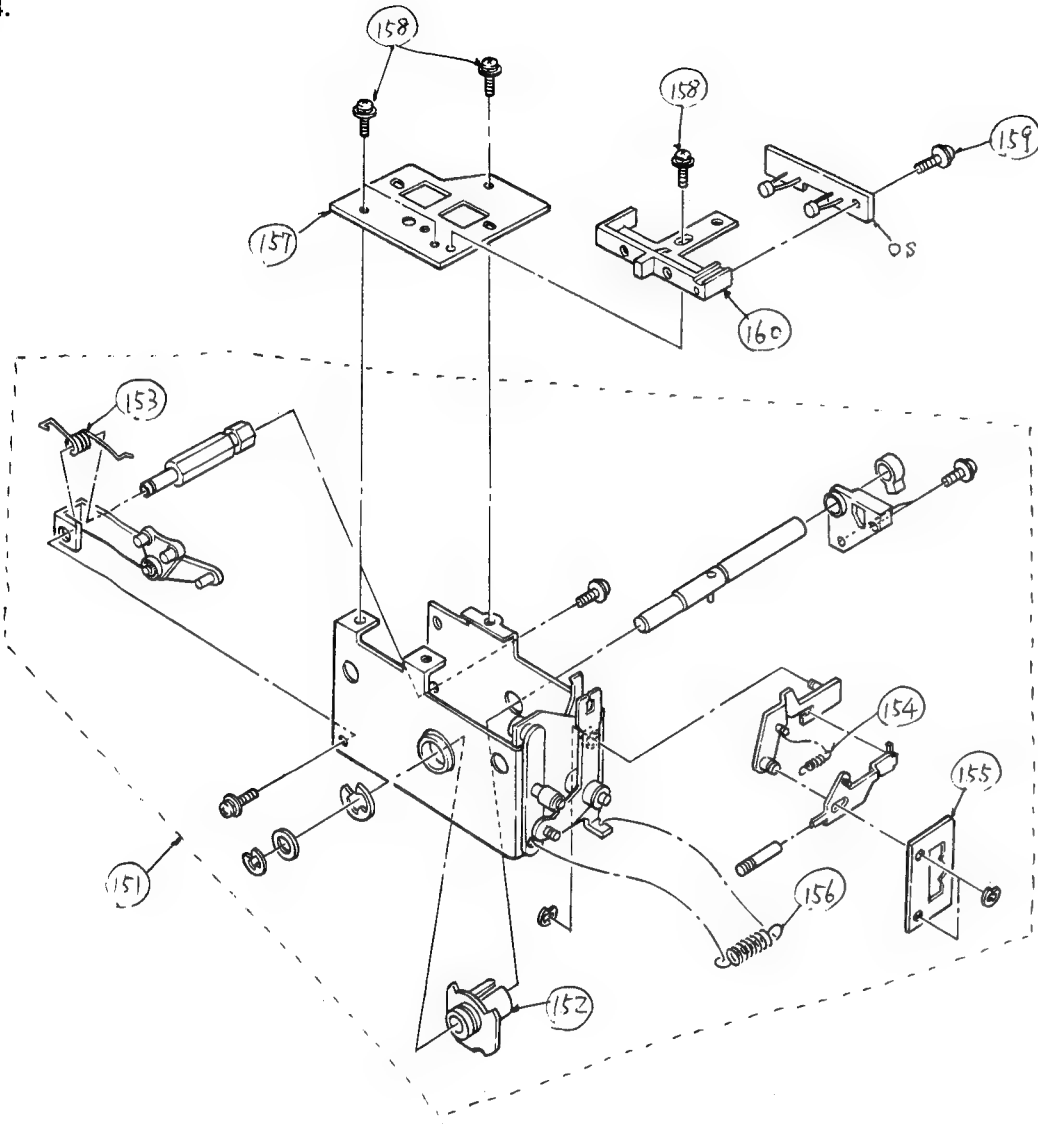
No.	Part No.	Description	Remarks
51	9-911-815-02	CUSHION	
52	4-812-471-XX	SPRING, TENSION	
53	3-542-847-11	KNOB	
54	7-621-759-65	+PSW, 2.6X8	
55	7-682-947-01	SCREW +PSW 3X6	
56	7-624-106-04	RING, RETAINING E-3	
57	*3-542-792-00	SHAFT, CONTROL LEVER	
58	*X-3542-637-0	HOLDER ASSY, BUTTON, PAUSE	
59	7-628-153-25	SCREW +PSW 2X6	
60	*X-3542-638-0	LEVER ASSY, INSTANT STOP DRIVE	
61	3-542-855-11	BUTTON, COUNTER RESET	
62	7-621-759-45	+PSW, 2.6X6	
63	*3-542-806-00	BRACKET, COUNTER	
65	*3-542-769-00	HOLDER, PAUSE BUTTON	
66	7-628-254-05	SCREW +PS 2.6X5	
67	*3-329-211-01	BRACKET (P), CONNECTOR	
68	7-621-259-32	SCREW +P 2.6X5	
69	7-621-559-38	SCREW +K 2.6X5	
70	*3-329-224-01	BRACKET (L), CONNECTOR	
71	X-3329-203-1	HOLDER (B) ASSY, KNOB	
72	*3-329-227-01	JOINT (B)	
73	2-362-385-00	SPRING, COMPRESSION	
74	3-329-223-01	CASE, BATTERY	
75	3-669-526-00	TERMINAL	
76	7-682-647-01	SCREW +PS 3X6	
77	*3-329-210-01	SPACER, PC BOARD	
78	*3-329-208-01	BRACKET, SOCKET	
79	*3-542-810-00	BRACKET (RIGHT), JACK	
80	3-542-845-00	KNOB, CONTROL	
81	*3-542-811-00	BRACKET, HEAD JACK	
82	*4-886-571-00	LUG, JACK	
83	*3-542-815-00	PLATE, REINFORCEMENT	
84	4-870-206-85	SUPPORT, PC BOARD	
501	1-548-508-00	TIMER, TAPE	
503	*A-2056-299-A	MOUNTED PCB, SWITCH	
CN101	1-509-184-31	CONNECTOR (RECEPTACLE) 3P	
CN102	1-509-176-31	CONNECTOR (RECEPTACLE) 3P	
CN202	1-509-176-31	CONNECTOR (RECEPTACLE) 3P	
CN201	1-509-184-31	CONNECTOR (RECEPTACLE) 3P	
CN301	1-562-973-11	SOCKET, CONNECTOR 7P	
CN601	1-509-184-31	CONNECTOR (RECEPTACLE) 3P	
CN901	1-509-177-31	CONNECTOR (RECEPTACLE) 4P	

3-3.



No.	Part No.	Description	Remarks
101	7-682-647-01	SCREW +PS 3X6	
102	*3-542-813-00	BRACKET (B), SWITCH	
103	3-329-215-01	KNOB, LEVER SWITCH	
104	3-533-938-00	CLOTH	
105	7-628-254-05	SCREW +PS 2.6X5	
106	*3-542-812-00	BRACKET (A), SWITCH	
107	7-683-237-31	SC 3X3, HEXAGON SOCKET	
108	3-329-217-01	KNOB, MODE SELECTION	
109	*3-329-209-01	SPACER (A)	
110	3-542-840-21	KNOB, RECORD MODE	

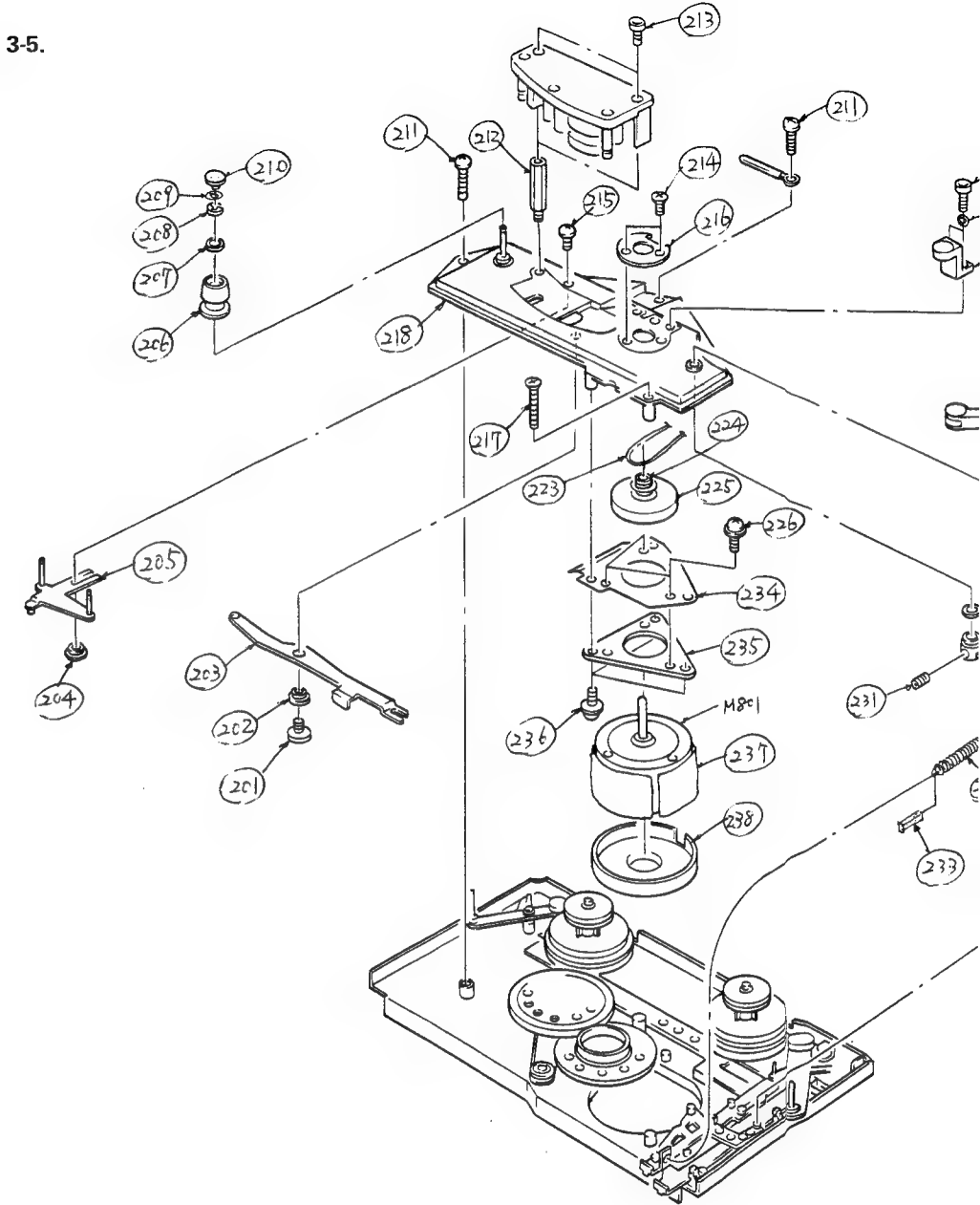
3-4.

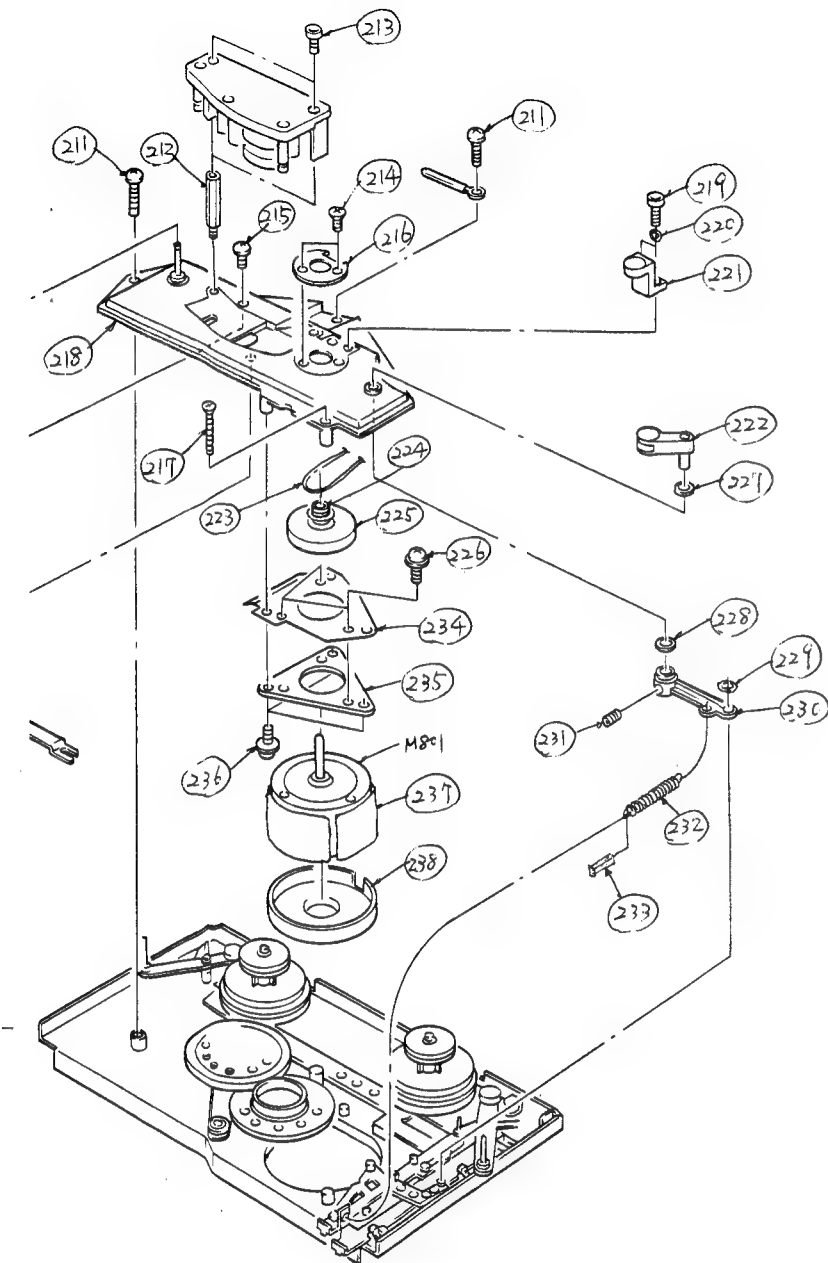


<u>No.</u>	<u>Part No.</u>	<u>Description</u>
151	*X-3542-620-0	CONVERTER COMPLETE ASSY
152	*3-542-644-00	CAM, SELECTOR
153	3-542-648-00	SPRING
154	3-542-649-00	SPRING, TENSION
155	*3-542-800-00	PLATE, CLICK
156	3-542-865-00	SPRING, TENSION
157	*3-542-777-00	BRACKET, REC SWITCH
158	7-621-759-45	+PSW, 2.6X6
159	7-685-533-21	SCREW +BTP 2.6X6 TYPE2 SLIT
160	*3-542-851-00	BRACKET, REC LAMP
161	*X-3542-622-0	PLATE ASSY, LOCK, FF & REW
162	*X-3542-623-0	LEVER (A) ASSY, CONTROL
163	*X-3542-624-0	LEVER (B) ASSY, CONTROL
164	*X-3542-625-0	LEVER A ASSY, FF & REW
165	*X-3542-626-0	LEVER A ASSY, CONVERTER
166	X-3542-627-0	SHAFT ASSY, CONTROL
167	*3-542-643-00	ROLLER
168	3-542-645-00	PIECE, CLICK
169	*3-542-646-00	LEVER, FWD
170	*3-542-647-00	SHAFT, SELECTOR CONTROL LEVER
171	7-624-112-04	RETAINING, RING E-8
172	7-624-109-04	RETAINING, RING E-5
173	7-624-108-04	RING, RETAINING E-4
174	7-624-106-04	RING, RETAINING E-3
175	7-621-759-45	+PSW, 2.6X6
176	7-621-759-85	+PSW, 2.6X12
177	3-701-444-21	WASHER, 6
178	3-701-443-11	WASHER, 5 (t=0.25)
	3-701-443-21	WASHER, 5 (t=0.5)
179	3-542-844-00	KNOB, FAST FORWARD CONTROL

Remarks

3-5.

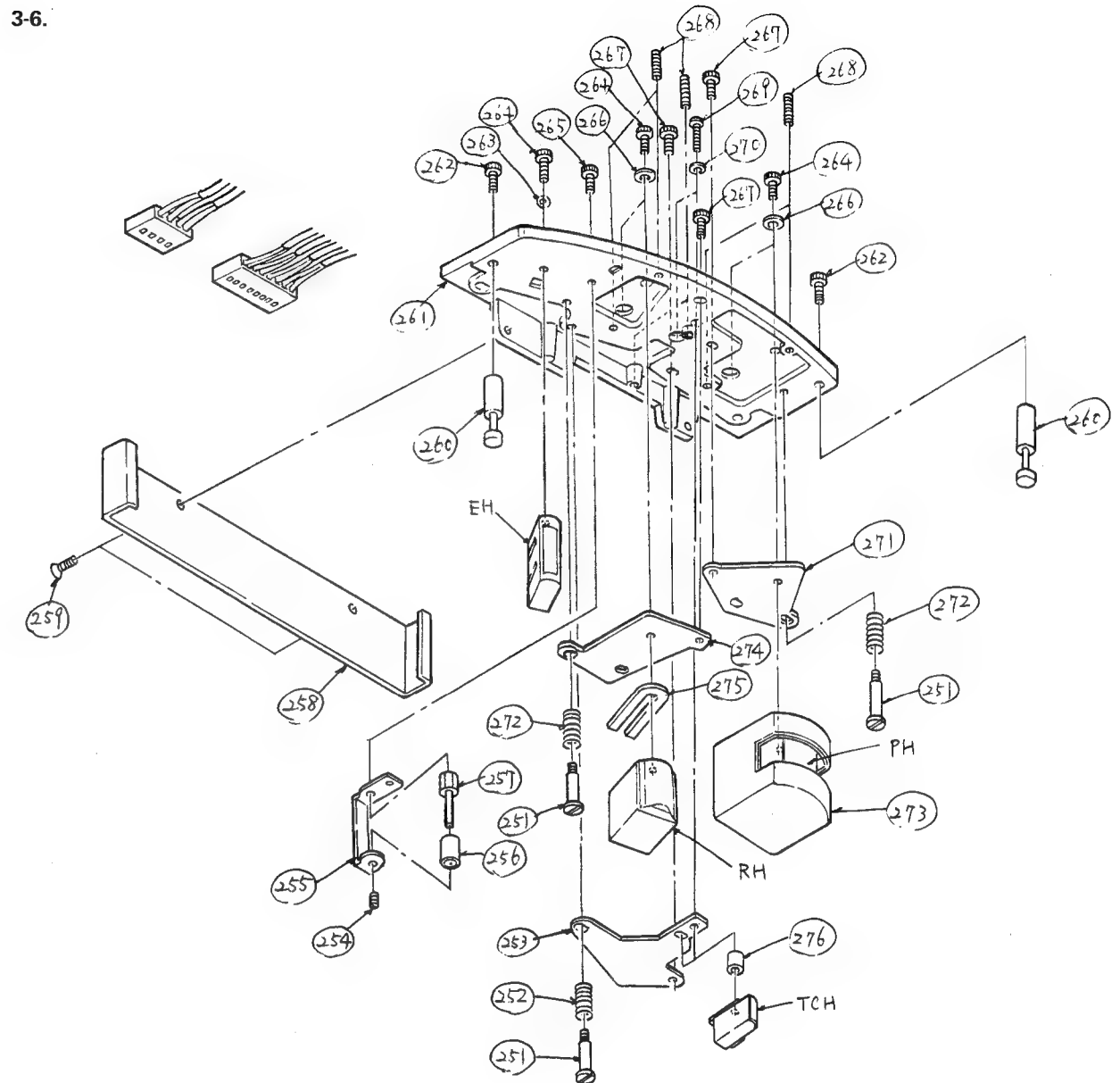




No.	Part No.	Description
201	7-682-246-01	SCREW +K 3X5
202	*3-542-775-00	BUSHING, SHIFTER PLATE
203	*3-542-799-00	PLATE, SHIFTER FUNCTION
204	3-542-776-00	BUSHING, SHIFTER GUIDE
205	X-3542-619-2	PLATE ASSY, SHIFT, TAPE
206	X-3542-634-0	ROLLER ASSY, GUIDE
207	3-701-437-11	WASHER
208	7-624-102-04	RING, RETAINING E-1.5
209	3-701-447-21	WASHER, 10
210	3-542-790-00	CAP, GUIDE ROLLER
211	7-682-550-05	SCREW +B 3X12
212	3-542-802-00	SUPPORT, HEAD BASE
213	7-683-403-04	BOLT, HEXAGON SOCKET 3X6
214	7-621-555-26	SCREW +K 2X4
215	7-682-546-04	SCREW +B 3X5
216	3-542-831-00	PLATE, BASE ORNAMENTAL
217	7-682-253-05	SCREW +K 3X20
218	*X-3329-207-1	BASE ASSY
219	7-683-404-04	BOLT, HEXAGON SOCKET 3X8
220	7-688-003-01	W 3, SMALL
221	X-3542-639-0	HOUSING, METAL, CAPSTAN
222	X-3542-640-0	ARM ASSY, PINCH ROLLER
223	3-542-804-00	BELT, CAPSTAN
224	3-542-898-00	NUT, WHEEL
225	3-542-803-00	FLYWHEEL
226	7-621-759-45	+PSW, 2.6X6
227	3-701-443-21	WASHER, 5 (t=0.5)
228	3-701-443-11	WASHER, 5 (t=0.25)
229	7-624-106-04	RING, RETAINING E-3
230	*3-542-778-00	LEVER, PINCH
231	7-621-734-09	SET-SCT, HEX 2.6X3
232	3-542-819-00	SPRING, TENSION
233	9-911-815-02	CUSHION
234	*3-329-221-01	PLATE, SHIELD, MOTOR
235	*3-542-774-00	BRACKET, MOTOR
236	7-682-947-01	SCREW +PSW 3X6
237	*3-542-888-00	PLATE, SHIELD
238	*3-542-887-00	CASE, MOTOR SHIELD
M801	8-835-152-01	MOTOR, DC (DNF-0514A)

Remarks

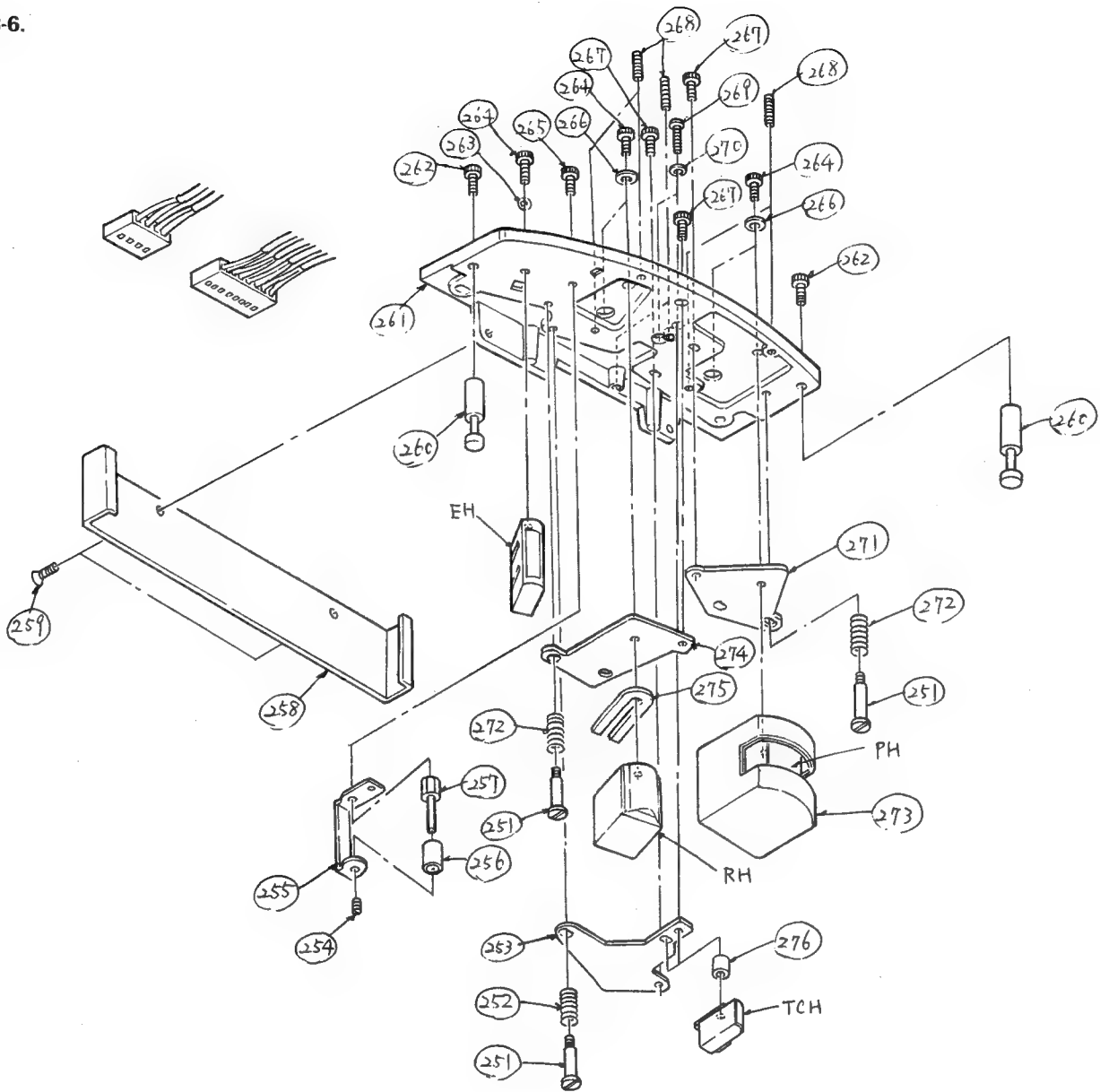
3-6.



Part No.	Description
7-682-246-01	SCREW +K 3X5
*3-542-775-00	BUSHING, SHIFTER PLATE
*3-542-799-00	PLATE, SHIFTER FUNCTION
3-542-776-00	BUSHING, SHIFTER GUIDE
X-3542-619-2	PLATE ASSY, SHIFT, TAPE
X-3542-634-0	ROLLER ASSY, GUIDE
3-701-437-11	WASHER
7-624-102-04	RING, RETAINING E-1.5
3-701-447-21	WASHER, 10
3-542-790-00	CAP, GUIDE ROLLER
7-682-550-05	SCREW +B 3X12
3-542-802-00	SUPPORT, HEAD BASE
7-683-403-04	BOLT, HEXAGON SOCKET 3X6
7-621-555-26	SCREW +K 2X4
7-682-546-04	SCREW +B 3X5
3-542-831-00	PLATE, BASE ORNAMENTAL
7-682-253-05	SCREW +K 3X20
*X-3329-207-1	BASE ASSY
7-683-404-04	BOLT, HEXAGON SOCKET 3X8
7-688-003-01	W 3, SMALL
X-3542-639-0	HOUSING, METAL, CAPSTAN
X-3542-640-0	ARM ASSY, PINCH ROLLER
3-542-804-00	BELT, CAPSTAN
3-542-898-00	NUT, WHEEL
3-542-803-00	FLYWHEEL
7-621-759-45	+PSW, 2.6X6
3-701-443-21	WASHER, 5 (t=0.5)
3-701-443-11	WASHER, 5 (t=0.25)
7-624-106-04	RING, RETAINING E-3
*3-542-778-00	LEVER, PINCH
7-621-734-09	SET-SCT, HEX 2.6X3
3-542-819-00	SPRING, TENSION
9-911-815-02	CUSHION
*3-329-221-01	PLATE, SHIELD, MOTOR
*3-542-774-00	BRACKET, MOTOR
7-682-947-01	SCREW +PSW 3X6
*3-542-888-00	PLATE, SHIELD
*3-542-887-00	CASE, MOTOR SHIELD
8-835-152-01	MOTOR, DC (DNF-0514A)

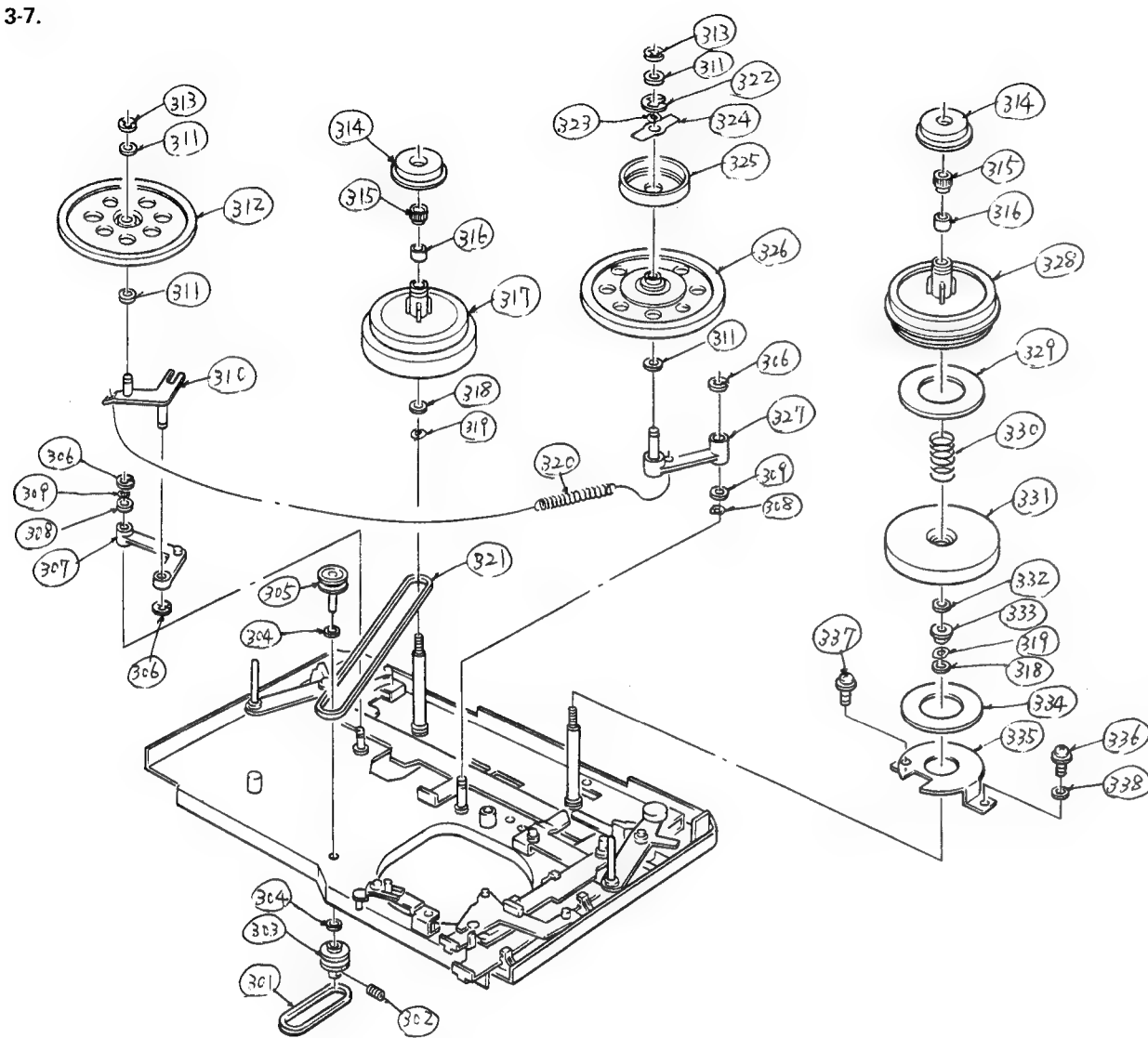
Remarks

3-6.



No.	Part No.	Description
251 ?	0-056-108-00	
252	3-329-218-01	SPRING, COMPRESSION
253	*3-329-202-01	BRACKET, T.C HEAD
254	3-146-310-00	SCREW
255	X-3472-048-X	ROLLER ASSY
256	3-542-772-00	HOLDER, ROLLER
257	X-3542-645-0	SHAFT ASSY, ROLLER
258	3-542-839-00	COVER, HEAD
259	7-621-559-38	SCREW +K 2.6X5
260	3-142-804-00	GUIDE, TAPE
261	*3-329-234-01	BASE, HEAD
262	7-683-403-04	BOLT, HEXAGON SOCKET 3X6
263	7-623-205-22	SW 3, TYPE 2
264	7-621-995-04	BOLT, HEXAGON SOCKET 2X5
265	7-621-996-04	BOLT, HEXAGON SOCKET 2.6X6
266	7-688-001-12	W 2, MIDDLE
267	7-621-996-14	BOLT, HEXAGON SOCKET 2.6X8
268	7-621-712-68	SET-SCT, HEX. 2.6X8
269	7-627-552-97	SCREW,PRECISION +P 1.7X6
270	7-688-008-04	W 1.7 SMALL
271	*3-329-203-01	BRACKET, PB HEAD
272	3-437-352-00	SPRING, COMPRESSION
273	3-541-318-00	CASE, (B) PLAYBACK SHIELD
274	*3-329-222-01	BRACKET, REC HEAD
275	3-531-526-11	SPACER
276	*3-329-220-01	SPACER, TCH
EH	1-543-272-11	HEAD, ERASE
PH	8-825-557-60	HEAD, PB
RH	8-825-558-20	HEAD
TCH	8-825-622-10	HEAD, RECORDING RF284-22

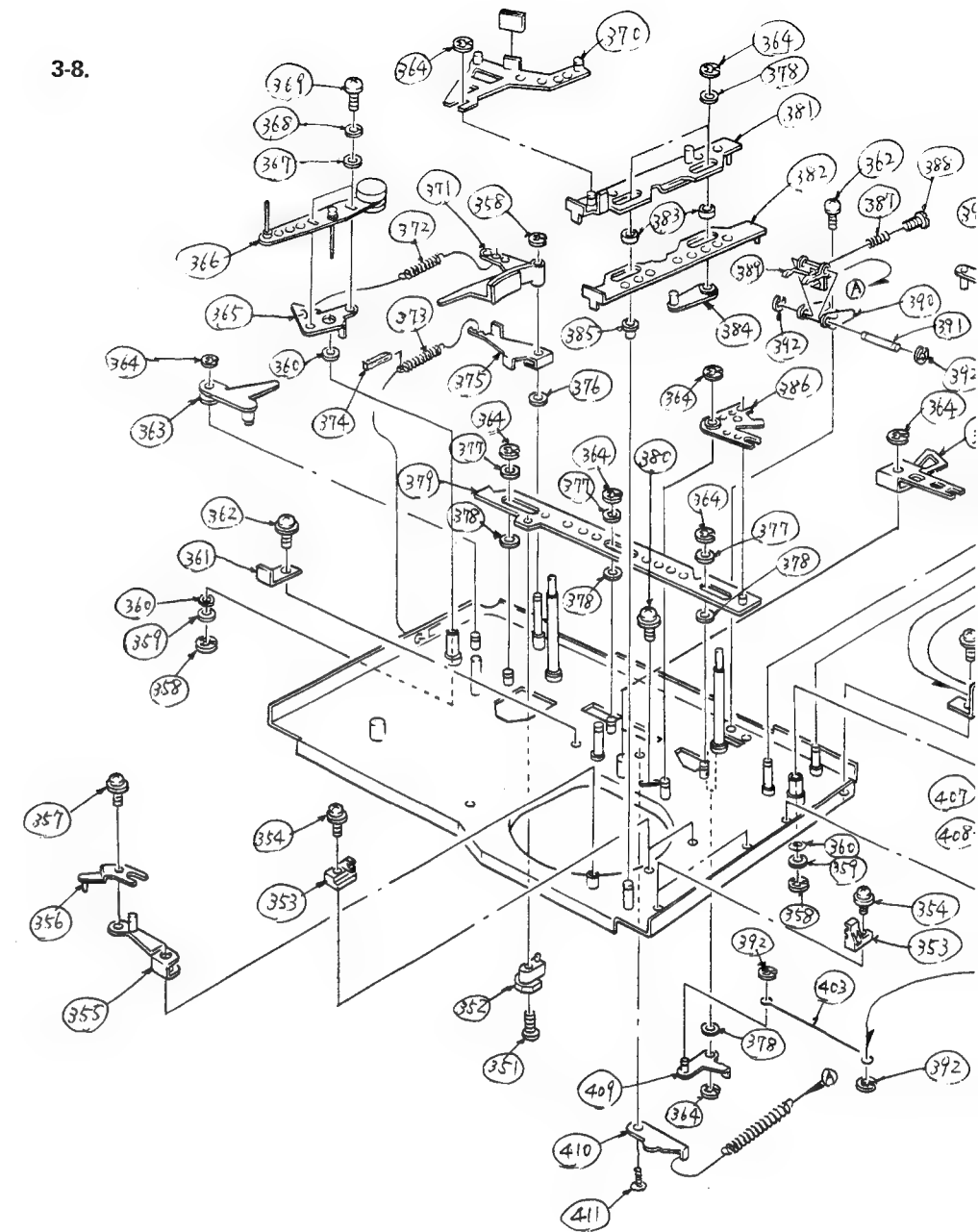
Remarks

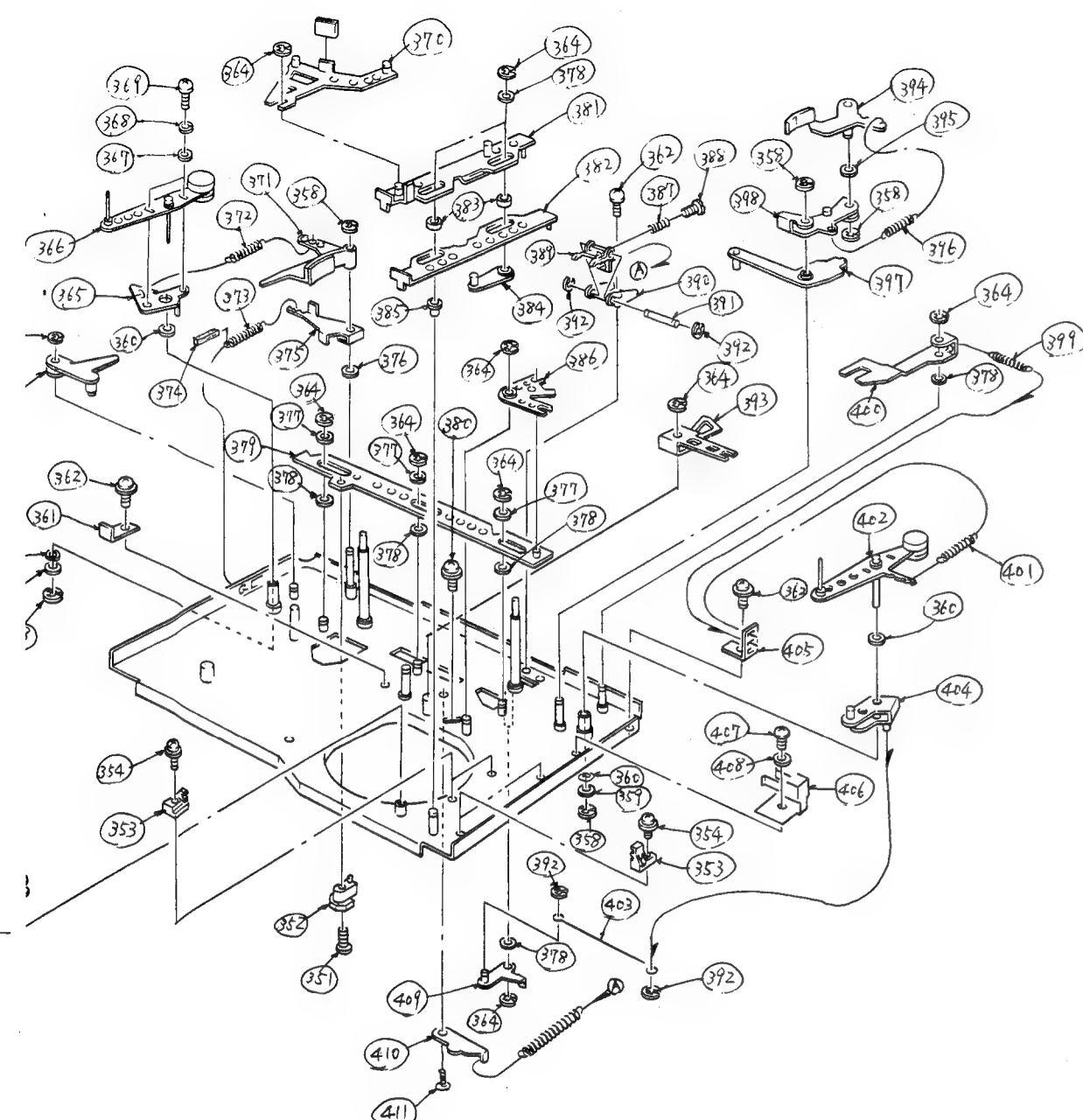


No.	Part No.	Description
301	3-453-112-00	BELT, C RUBBER
302	7-683-237-31	SC 3X3, HEXAGON SOCKET
303	*3-542-798-00	PULLEY (B), COUNTER
304	3-701-438-21	WASHER
305	3-542-805-00	PULLEY (A), COUNTER
306	7-624-106-04	RING, RETAINING E-3
307	*X-3542-636-0	LEVER ASSY, IDLER, REWIND
308	3-701-441-21	WASHER
309	3-701-441-11	WASHER
310	*X-3542-631-0	ARM ASSY, IDLER, REWIND
311	3-701-439-11	WASHER
312	X-3542-632-0	IDLER (A) ASSY
313	7-624-104-04	RING, RETAINING E-2
314	3-329-216-01	LOCK (B), REEL
315	3-542-797-00	SCREW, REEL TABLE LOCK
316	3-542-916-00	BEARING, BALL
317	X-3542-651-0	TABLE ASSY, REEL, LEFT
318	3-701-440-01	WASHER, 3.5
319	3-701-440-11	WASHER, 3.5
320	3-542-818-00	SPRING, TENSION
321	3-642-545-00	BELT, COUNTER
322	7-624-109-04	RETAINING, RING E-5
323	3-701-444-21	WASHER, 6
324	3-542-877-00	SPRING, LEAF
325	3-542-874-00	IDLER, (C)
326	X-3542-633-0	IDLER (B) ASSY
327	*X-3542-635-0	ARM ASSY, IDLER
328	X-3542-650-0	TABLE ASSY, REEL, RIGHT
329	3-542-833-11	FELT, TAKE-UP
330	3-542-852-00	SPRING, COMPRESSION
331	3-542-832-00	DRUM, REEL
332	3-701-444-01	WASHER, 6
333	3-542-794-00	BEARING, COMPRESSION
334	3-542-833-00	FELT, REWIND
335	*3-542-862-00	DISK, REW TENSION
336	7-682-647-01	SCREW +PS 3X6
337	7-682-947-01	SCREW +PSW 3X6
338	*3-542-927-00	SPACER, BRAKE STOPPER
339	X-3542-602-0	SPINDLE ASSY, REEL
340	3-542-918-00	NUT, REEL SHAFT STOP

Remarks

3-8.

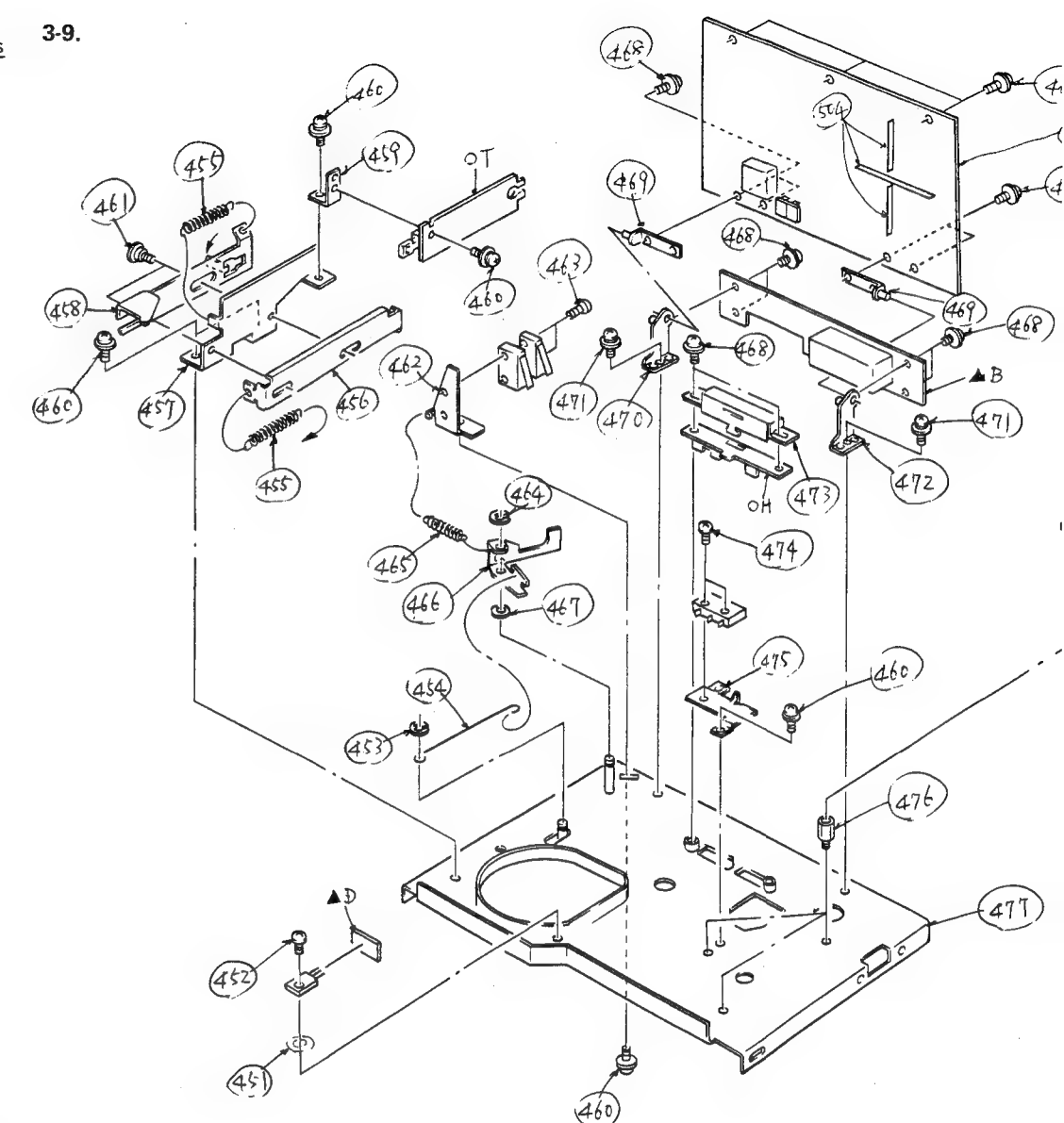




No.	Part No.	Description
351	7-621-259-85	SCREW +P 2.6X14
352	*3-542-781-00	ACTUATOR, SWITCH
353	*3-542-771-00	GUIDE, CONTROL PLATE
354	7-621-759-75	+PSW, 2.6X10
355	*X-3542-629-0	LEVER ASSY, SHIFT, STOPPER
356	*X-3542-630-0	PLATE ASSY, ADJUSTMENT
357	7-621-759-45	+PSW, 2.6X6
358	7-624-104-04	RING, RETAINING E-2
359	3-701-438-01	WASHER
360	3-701-438-11	WASHER, 2.5
361	*3-542-784-00	PLATE, SPRING
362	7-621-759-35	+PSW, 2.6X5
363	*X-3542-643-0	LEVER ASSY, FUNCTION, LEFT
364	7-624-106-04	RING, RETAINING E-3
365	*3-542-835-00	PLATE, TENSION ARM
366	X-3542-612-0	ARM ASSY, TENSION (LEFT)
367	7-623-105-16	W 2, MIDDLE
368	7-623-205-22	SW 2, TYPE 2
369	7-621-255-35	SCREW +P 2X5
370	*X-3542-611-0	PLATE ASSY, FUNCTION
371	X-3542-642-0	ARM ASSY
372	3-542-822-00	SPRING, TENSION
373	3-542-821-00	SPRING, TENSION
374	9-911-815-02	CUSHION
375	*3-542-858-00	LEVER (S), TENSION REGULATOR
376	3-701-442-11	WASHER, 4.5
377	3-701-441-11	WASHER
378	3-701-441-21	WASHER
379	*X-3542-605-0	PLATE ASSY, FUNCTION, FF
380	7-682-947-01	SCREW +PSW 3X6
381	*X-3542-603-0	PLATE ASSY, CONTROL, FWD
382	*X-3542-604-0	PLATE ASSY, CONTROL, FF & REW
383	3-542-789-00	COLLAR, CONTROL PLATE
384	*X-3542-610-0	PLATE ASSY, STOPPER
385	3-542-625-00	BUSHING
386	*X-3542-607-0	LEVER ASSY, JOINT, FR
387	3-437-352-00	SPRING, COMPRESSION
388	3-542-796-00	SCREW, POINT ADJUSTMENT
389	*3-542-785-00	ARM, TENSION REGULATOR
390	*3-542-787-00	HOLDER, DRIVE LEVER
391	*3-542-786-00	SHAFT
392	7-624-102-04	RING, RETAINING E-1.5
393	*X-3542-606-0	LEVER ASSY, JOINT, FWD
394	X-3542-671-0	ARM ASSY, BRAKE
395	3-701-439-21	WASHER
396	3-542-914-00	SPRING, TENSION
397	*X-3542-669-0	LEVER (A) ASSY, RELEASE, BRAKE
398	*X-3542-670-0	LEVER ASSY, BRAKE
399	3-542-915-00	SPRING, TENSION
400	*3-542-913-00	LEVER B, BRAKE RELEASE

No.	Part No.	Description
401	3-534-854-	SPRING, COMPRESSION
402	X-3542-615-0	ARM ASSY, TENSION, RIGHT
403	*3-542-788-00	BAR, DRIVE
404	*X-3542-644-0	LEVER ASSY, FUNCTION, RIGHT
405	*3-542-770-02	STOPPER, REW IDLER
406	*3-542-906-00	DAMPER, TENSION REGULATOR
407	7-628-254-05	SCREW +PS 2.6X5
408	7-623-107-12	W 2.6, MIDDLE
409	*X-3542-648-0	LEVER ASSY, DRIVING, TENSION
410	*3-542-917-00	PLATE, ADJUSTING
411	*3-465-048-00	SHAFT
412	*3-542-919-00	BRUSH
413	7-621-759-85	+PSW, 2.6X12
502	*A-2056-298-A	MOUNTED PCB, AUDIO
504	*1-560-242-21	BUS BAR 4P

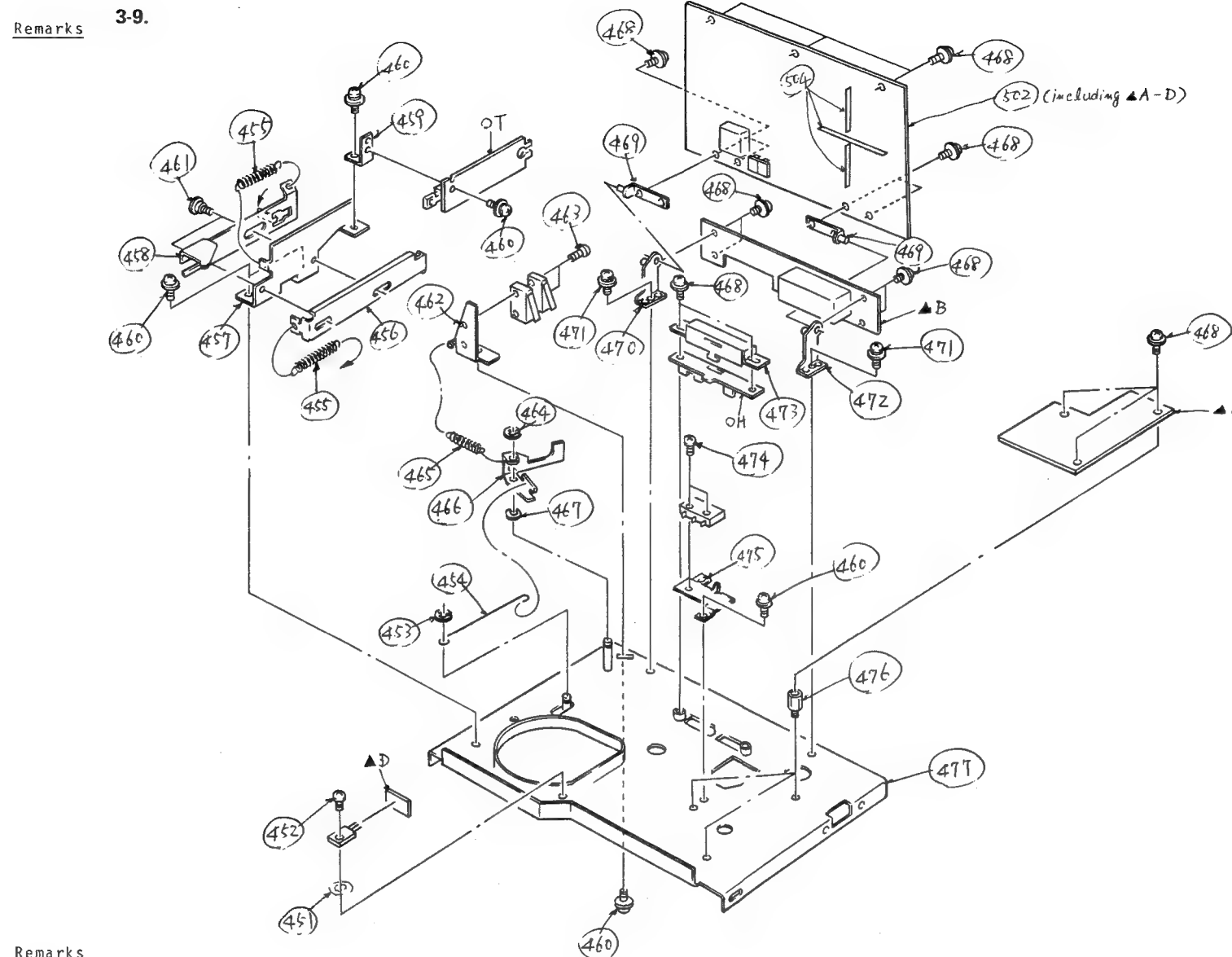
Remarks 3-9.



Remarks

No.	Part No.	Description	Remarks
351	7-621-259-85	SCREW +P 2.6X14	
352	*3-542-781-00	ACTUATOR, SWITCH	
353	*3-542-771-00	GUIDE, CONTROL PLATE	
354	7-621-759-75	+PSW, 2.6X10	
355	*X-3542-629-0	LEVER ASSY, SHIFT, STOPPER	
356	*X-3542-630-0	PLATE ASSY, ADJUSTMENT	
357	7-621-759-45	+PSW, 2.6X6	
358	7-624-104-04	RING, RETAINING E-2	
359	3-701-438-01	WASHER	
360	3-701-438-11	WASHER, 2.5	
361	*3-542-784-00	PLATE, SPRING	
362	7-621-759-35	+PSW, 2.6X5	
363	*X-3542-643-0	LEVER ASSY, FUNCTION, LEFT	
364	7-624-106-04	RING, RETAINING E-3	
365	*3-542-835-00	PLATE, TENSION ARM	
366	X-3542-612-0	ARM ASSY, TENSION (LEFT)	
367	7-623-105-16	W 2, MIDDLE	
368	7-623-205-22	SW 2, TYPE 2	
369	7-621-255-35	SCREW +P 2X5	
370	*X-3542-611-0	PLATE ASSY, FUNCTION	
371	X-3542-642-0	ARM ASSY	
372	3-542-822-00	SPRING, TENSION	
373	3-542-821-00	SPRING, TENSION	
374	9-911-815-02	CUSHION	
375	*3-542-858-00	LEVER (S), TENSION REGULATOR	
376	3-701-442-11	WASHER, 4.5	
377	3-701-441-11	WASHER	
378	3-701-441-21	WASHER	
379	*X-3542-605-0	PLATE ASSY, FUNCTION, FF	
380	7-682-947-01	SCREW +PSW 3X6	
381	*X-3542-603-0	PLATE ASSY, CONTROL, FWD	
382	*X-3542-604-0	PLATE ASSY, CONTROL, FF & REW	
383	3-542-789-00	COLLAR, CONTROL PLATE	
384	*X-3542-610-0	PLATE ASSY, STOPPER	
385	3-542-625-00	BUSHING	
386	*X-3542-607-0	LEVER ASSY, JOINT, FR	
387	3-437-352-00	SPRING, COMPRESSION	
388	3-542-796-00	SCREW, POINT ADJUSTMENT	
389	*3-542-785-00	ARM, TENSION REGULATOR	
390	*3-542-787-00	HOLDER, DRIVE LEVER	
391	*3-542-786-00	SHAFT	
392	7-624-102-04	RING, RETAINING E-1.5	
393	*X-3542-606-0	LEVER ASSY, JOINT, FWD	
394	X-3542-671-0	ARM ASSY, BRAKE	
395	3-701-439-21	WASHER	
396	3-542-914-00	SPRING, TENSION	
397	*X-3542-669-0	LEVER (A) ASSY, RELEASE, BRAKE	
398	*X-3542-670-0	LEVER ASSY, BRAKE	
399	3-542-915-00	SPRING, TENSION	
400	*3-542-913-00	LEVER B, BRAKE RELEASE	

No.	Part No.	Description	Remarks
401	3-534-854-	SPRING, COMPRESSION	
402	X-3542-615-0	ARM ASSY, TENSION, RIGHT	
403	*3-542-788-00	BAR, DRIVE	
404	*X-3542-644-0	LEVER ASSY, FUNCTION, RIGHT	
405	*3-542-770-02	STOPPER, REW IDLER	
406	*3-542-906-00	DAMPER, TENSION REGULATOR	
407	7-628-254-05	SCREW +PS 2.6X5	
408	7-623-107-12	W 2.6, MIDDLE	
409	*X-3542-648-0	LEVER ASSY, DRIVING, TENSION	
410	*3-542-917-00	PLATE, ADJUSTING	
411	*3-465-048-00	SHAFT	
412	*3-542-919-00	BRUSH	
413	7-621-759-85	+PSW, 2.6X12	
502	*A-2056-298-A	MOUNTED PCB, AUDIO	
504	*1-560-242-21	BUS BAR 4P	



No.	Part No.	Description	Remarks
451	3-572-365-11	SHEET, INSULATING (A)	
452	7-682-547-05	SCREW +B 3X6	
453	7-624-102-04	RING, RETAINING E-1.5	
454	*3-542-838-00	ROD, POWER SWITCH DRIVE	
455	3-542-850-00	SPRING, TENSION	
456	*3-542-825-00	PLATE (A), REC SLIDE	
457	*3-542-824-00	BRACKET, REC MECHANISM	
458	3-542-827-00	PLATE, SLIDE, REC (B)	
459	*3-542-826-00	BRACKET, REC CIRCUIT BOARD	
460	7-621-759-45	+PSW, 2.6X6	
461	3-486-138-00	SCREW	
462	*3-542-782-00	HOLDER, FWD SWITCH	
463	7-621-256-05	SCREW +P 2X16	
464	7-624-106-04	RING, RETAINING E-3	
465	4-812-471-XX	SPRING, TENSION	
466	*3-542-779-00	ACTUATOR, FWD SWITCH	
467	3-701-441-21	WASHER	
468	7-682-947-01	SCREW +PSW 3X6	
469	*X-3542-647-0	BRACKET ASSY, PC BOARD	
470	*X-3542-646-0	BRACKET ASSY, PC BOARD, POWER	
471	7-682-647-01	SCREW +PS 3X6	
472	3-542-705-00	BRACKET, POWER SUPPLY BOARD	
473	*3-542-860-00	CASE, CONNECTOR SHIELD	
474	7-621-255-55	SCREW +P 2X8	
475	*3-542-783-00	BRACKET, FF.REW.SWITCH	
476	4-870-206-85	SUPPORT, PC BOARD	
477	*X-3542-601-5	CHASSIS ASSY, MECHANICAL	

SECTION 4

ELECTRICAL PARTS LIST

NOTE:

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μF.

RESISTORS
• All resistors are in ohms.
• F : nonflammable

COILS
• MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-548-508-00	TIMER, TAPE
502	*A-2056-298-A	MOUNTED PCB, AUDIO
503	*A-2056-299-A	MOUNTED PCB, SWITCH
504	*1-560-242-21	BUS BAR 4P
505	*1-560-060-00	PIN, CONNECTOR 2P
506	*1-560-062-00	PIN, CONNECTOR 4P
507	*1-560-064-00	PIN, CONNECTOR 6P
508	*1-560-603-00	PIN, CONNECTOR 4P
509	*1-560-709-00	PIN, CONNECTOR 8P
510	*1-564-505-11	PLUG, CONNECTOR 2P
511	*1-564-505-21	PLUG, CONNECTOR 2P
512	*1-564-505-31	PLUG, CONNECTOR 2P
513	*1-564-505-41	PLUG, CONNECTOR 2P
514	*1-564-506-11	PLUG, CONNECTOR 3P
515	*1-564-507-11	PLUG, CONNECTOR 4P
516	*1-564-507-21	PLUG, CONNECTOR 4P
517	*1-564-507-31	PLUG, CONNECTOR 4P
518	*1-564-507-41	PLUG, CONNECTOR 4P
519	*1-564-508-11	PLUG, CONNECTOR 5P
520	*1-564-509-11	PLUG, CONNECTOR 6P
521	*1-564-517-11	PLUG, CONNECTOR 2P
522	*1-564-519-11	PLUG, CONNECTOR 4P
523	*1-564-521-11	PLUG, CONNECTOR 6P
C101	1-162-306-31	CERAMIC 0.01MF 30% 16V
C102	1-123-370-00	ELECT 10MF 20% 63V
C103	1-123-370-00	ELECT 10MF 20% 63V
C104	1-162-294-31	CERAMIC 0.001MF 10% 50V
C105	1-123-356-00	ELECT 10MF 20% 50V
C106	1-123-356-00	ELECT 10MF 20% 50V
C107	1-162-294-31	CERAMIC 0.001MF 10% 50V
C108	1-123-307-00	ELECT 100MF 20% 10V
C109	1-162-294-31	CERAMIC 0.001MF 10% 50V
C110	1-124-185-00	ELECT 4.7MF 20% 50V
C111	1-136-167-00	FILM 0.15MF 5% 50V
C112	1-131-522-00	TANTALUM 10MF 20% 25V
C113	1-131-522-00	TANTALUM 10MF 20% 25V
C114	1-107-310-00	MICA 220PF 5% 500V
C121	1-131-522-00	TANTALUM 10MF 20% 25V
C122	1-131-522-00	TANTALUM 10MF 20% 25V
C123	1-107-310-00	MICA 220PF 5% 500V
C124	1-123-380-00	ELECT 1MF 20% 50V
C125	1-123-306-00	ELECT 47MF 20% 10V
C126	1-136-169-00	FILM 0.22MF 5% 50V
C127	1-131-520-00	TANTALUM 22MF 20% 16V
C128	1-131-520-00	TANTALUM 22MF 20% 16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C129	1-107-310-00	MICA 220PF 5% 500V
C130	1-107-165-00	MICA 56PF 5% 500V
C131	1-141-034-	CAP,TRIMMER 120PF
C132	1-130-297-00	FILM 0.01MF 5% 100V
C133	1-130-303-00	FILM 0.018MF 5% 100V
C141	1-130-683-00	FILM 0.027MF 2% 630V
C142	1-131-522-00	TANTALUM 10MF 20% 25V
C143	1-131-522-00	TANTALUM 10MF 20% 25V
C144	1-136-169-00	FILM 0.22MF 5% 50V
C145	1-130-299-00	FILM 0.012MF 5% 100V
C146	1-107-165-00	MICA 56PF 5% 500V
C147	1-130-273-00	FILM 0.001MF 5% 100V
C148	1-131-522-00	TANTALUM 10MF 20% 25V
C149	1-131-522-00	TANTALUM 10MF 20% 25V
C150	1-107-310-00	MICA 220PF 5% 500V
C151	1-123-380-00	ELECT 1MF 20% 50V
C152	1-123-306-00	ELECT 47MF 20% 10V
C153	1-162-306-31	CERAMIC 0.01MF 30% 16V
C161	1-123-356-00	ELECT 10MF 20% 25V
C162	1-136-163-00	FILM 0.068MF 5% 50V
C163	1-123-307-00	ELECT 100MF 20% 10V
C201	1-162-306-31	CERAMIC 0.01MF 30% 16V
C202	1-123-370-00	ELECT 10MF 20% 63V
C203	1-123-370-00	ELECT 10MF 20% 63V
C204	1-162-294-31	CERAMIC 0.001MF 10% 50V
C205	1-123-356-00	ELECT 10MF 20% 50V
C206	1-123-356-00	ELECT 10MF 20% 50V
C207	1-162-294-31	CERAMIC 0.001MF 10% 50V
C208	1-123-307-00	ELECT 100MF 20% 10V
C209	1-162-294-31	CERAMIC 0.001MF 10% 50V
C210	1-124-185-00	ELECT 4.7MF 20% 50V
C211	1-136-167-00	FILM 0.15MF 5% 50V
C212	1-131-522-00	TANTALUM 10MF 20% 25V
C213	1-131-522-00	TANTALUM 10MF 20% 25V
C214	1-107-310-00	MICA 220PF 5% 500V
C221	1-131-522-00	TANTALUM 10MF 20% 25V
C222	1-131-522-00	TANTALUM 10MF 20% 25V
C223	1-107-310-00	MICA 220PF 5% 500V
C224	1-123-380-00	ELECT 1MF 20% 50V
C225	1-123-306-00	ELECT 47MF 20% 10V
C226	1-136-169-00	FILM 0.22MF 5% 50V
C227	1-131-520-00	TANTALUM 22MF 20% 16V
C228	1-131-520-00	TANTALUM 22MF 20% 16V
C229	1-107-310-00	MICA 220PF 5% 500V
C230	1-107-165-00	MICA 56PF 5% 500V
C231	1-141-034-	CAP,TRIMMER 120PF

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C232	1-130-297-00	FILM 0.01MF 5% 100V
C233	1-130-303-00	FILM 0.018MF 5% 100V
C241	1-130-683-00	FILM 0.027MF 2% 630V
C242	1-131-522-00	TANTALUM 10MF 20% 25V
C243	1-131-522-00	TANTALUM 10MF 20% 25V
C244	1-136-169-00	FILM 0.22MF 5% 50V
C245	1-130-299-00	FILM 0.012MF 5% 100V
C246	1-107-165-00	MICA 56PF 5% 500V
C247	1-130-273-00	FILM 0.001MF 5% 100V
C248	1-131-522-00	TANTALUM 10MF 20% 25V
C249	1-131-522-00	TANTALUM 10MF 20% 25V
C250	1-107-310-00	MICA 220PF 5% 500V
C251	1-123-380-00	ELECT 1MF 20% 50V
C252	1-123-306-00	ELECT 47MF 20% 10V
C253	1-162-306-31	CERAMIC 0.01MF 30% 16V
C261	1-123-356-00	ELECT 10MF 20% 25V
C262	1-136-163-00	FILM 0.068MF 5% 50V
C263	1-123-307-00	ELECT 100MF 20% 10V
C301	1-131-450-00	TANTALUM 1MF 20% 50V
C302	1-131-450-00	TANTALUM 1MF 20% 50V
C303	1-131-450-00	TANTALUM 1MF 20% 50V
C304	1-131-450-00	TANTALUM 1MF 20% 50V
C304	1-131-520-00	TANTALUM 22MF 20% 16V
C311	1-131-450-00	TANTALUM 1MF 20% 50V
C312	1-131-450-00	TANTALUM 1MF 20% 50V
C313	1-123-333-00	ELECT 100MF 20% 16V
C314	1-123-333-00	ELECT 100MF 20% 16V
C315	1-131-450-00	TANTALUM 1MF 20% 50V
C316	1-131-450-00	TANTALUM 1MF 20% 50V
C317	1-162-306-31	CERAMIC 0.01MF 30% 16V
C318	1-123-356-00	ELECT 10MF 20% 50V
C319	1-124-282-00	ELECT 22MF 20% 25V
C320	1-124-282-00	ELECT 22MF 20% 25V
C321	1-123-336-00	ELECT 470MF 20% 25V
C322	1-123-336-00	ELECT 470MF 20% 25V
C323	1-131-450-00	TANTALUM 1MF 20% 50V
C324	1-131-450-00	TANTALUM 1MF 20% 50V
C325	1-123-333-00	ELECT 100MF 20% 16V
C326	1-123-333-00	ELECT 100MF 20% 16V
C327	1-162-306-31	CERAMIC 0.01MF 30% 16V
C331	1-123-333-00	ELECT 100MF 20% 16V
C332	1-123-333-00	ELECT 100MF 20% 16V
C333	1-123-381-00	ELECT 2.2MF 20% 50V
C334	1-123-369-00	ELECT 4.7MF 20% 50V
C335	1-123-307-00	ELECT 100MF 20% 10V
C336	1-162-286-31	CERAMIC 220PF 10% 50V
C337	1-136-169-00	FILM 0.22MF 5% 50V
C338	1-123-321-00	ELECT 220MF 20% 16V
C339	1-123-308-00	ELECT 220MF 20% 10V
C340	1-123-306-00	ELECT 47MF 20% 10V
C601	1-123-308-00	ELECT 220MF 20% 10V
C602	1-123-308-00	ELECT 220MF 20% 10V
C603	1-124-182-00	ELECT 1MF 20% 50V
C604	1-124-182-00	ELECT 1MF 20% 50V
C605	1-162-306-31	CERAMIC 0.01MF 30% 16V
C606	1-123-379-00	ELECT 0.47MF 20% 50V
C607	1-124-183-00	ELECT 2.2MF 20% 50V
C608	1-123-307-00	ELECT 100MF 20% 10V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C610	1-162-306-31	CERAMIC 0.01MF 30% 16V
C611	1-162-306-31	CERAMIC 0.01MF 30% 16V
C612	1-162-306-31	CERAMIC 0.01MF 30% 16V
C701	1-123-618-00	ELECT 22MF 20% 6.3V
C702	1-162-306-31	CERAMIC 0.01MF 30% 16V
C703	1-162-306-31	CERAMIC 0.01MF 30% 16V
C704	1-162-306-31	CERAMIC 0.01MF 30% 16V
C705	1-162-306-31	CERAMIC 0.01MF 30% 16V
C706	1-162-306-31	CERAMIC 0.01MF 30% 16V
C707	1-162-306-31	CERAMIC 0.01MF 30% 16V
C708	1-162-306-31	CERAMIC 0.01MF 30% 16V
C709	1-162-306-31	CERAMIC 0.01MF 30% 16V
C710	1-162-207-31	CERAMIC 22PF 5% 50V
C711	1-162-207-31	CERAMIC 22PF 5% 50V
C721	1-	220PF
C722	1-	220PF
C723	1-	0.1MF
C724	1-	0.0033MF
C725	1-	220PF
C726	1-	220PF
C727	1-	0.01MF
C728	1-	0.01MF
C729	1-	0.01MF
C730	1-	0.01MF
C801	1-110-199-00	MYLAR 0.0022MF 5% 50V
C802	1-136-157-00	FILM 0.022MF 5% 50V
C803	1-136-173-00	FILM 0.47MF 5% 50V
C804	1-136-173-00	FILM 0.47MF 5% 50V
C805	1-123-356-00	ELECT 10MF 20% 25V
C806	1-123-356-00	ELECT 10MF 20% 25V
C807	1-136-159-00	FILM 0.033MF 5% 50V
C808	1-136-155-00	FILM 0.015MF 5% 50V
C809	1-131-355-71	TANTALUM 2.2MF 20% 25V
C810	1-123-333-00	ELECT 100MF 20% 16V
C811	1-123-322-00	ELECT 330MF 20% 16V
C812	1-136-167-00	FILM 0.15MF 5% 50V
C813	1-136-164-00	FILM 0.082MF 5% 50V
C814	1-136-153-00	FILM 0.01MF 5% 50V
C815	1-130-188-00	FILM 0.01MF 5% 100V
C816	1-136-158-00	FILM 0.027MF 5% 50V
C817	1-110-204-00	MYLAR 0.0056MF 5% 50V
C818	1-162-207-31	CERAMIC 22PF 5% 50V
C819	1-162-219-31	CERAMIC 68PF 5% 50V
C820	1-162-219-31	CERAMIC 68PF 5% 50V
C901	1-123-706-	ELECT 470MF 20% 35V
C902	1-123-706-	ELECT 470MF 20% 35V
C903	1-131-520-00	TANTALUM 22MF 20% 16V
C905	1-123-345-00	ELECT 100MF 20% 35V
C906	1-123-345-00	ELECT 100MF 20% 35V
C909	1-107-206-00	MICA 15PF 5% 500V
C910	1-107-206-00	MICA 15PF 5% 500V
C911	1-123-374-00	ELECT 100MF 20% 63V
C912	1-162-294-31	CERAMIC 0.001MF 10% 50V
C913	1-123-356-00	ELECT 10MF 20% 50V
C914	1-123-359-00	ELECT 47MF 20% 50V
C915	1-162-306-31	CERAMIC 0.01MF 30% 16V
C916	1-123-334-00	ELECT 220MF 20% 25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C917	1-162-306-31	CERAMIC 0.01MF 30% 16V
C918	1-123-334-00	ELECT 220MF 20% 25V
C919	1-123-323-00	ELECT 470MF 20% 16V
C920	1-123-374-00	ELECT 100MF 20% 63V
C921	1-123-336-00	ELECT 470MF 20% 25V
C922	1-123-336-00	ELECT 470MF 20% 25V
C923	1-123-324-00	ELECT 1000MF 20% 16V
C924	1-123-324-00	ELECT 1000MF 20% 16V
C925	1-123-321-00	ELECT 220MF 20% 16V
C926	1-123-330-00	ELECT 22MF 20% 16V
C927	1-123-307-00	ELECT 100MF 20% 10V
C928	1-161-937-00	CERAMIC 0.01MF 250V
C929	1-123-356-00	ELECT 10MF 20% 25V
C930	1-123-332-00	ELECT 47MF 20% 25V
C931	1-162-294-31	CERAMIC 0.001MF 10% 50V
CN102	1-509-176-31	CONNECTOR (RECEPTACLE) 3P
CN101	1-509-184-31	CONNECTOR (RECEPTACLE) 3P
CN201	1-509-184-31	CONNECTOR (RECEPTACLE) 3P
CN202	1-509-176-31	CONNECTOR (RECEPTACLE) 3P
CN301	1-562-973-11	SOCKET, CONNECTOR 7P
CN601	1-509-184-31	CONNECTOR (RECEPTACLE) 3P
CN901	1-509-177-31	CONNECTOR (RECEPTACLE) 4P
CP1	1-464-555-11	CONVERTER UNIT, DC-DC
CP2	1-464-552-11	OSCILLATION UNIT, BIAS
D101	8-719-107-94	DIODE 1SS202-1
D102	8-719-107-94	DIODE 1SS202-1
D103	8-719-910-65	DIODE HZ6B2L
D104	8-719-910-65	DIODE HZ6B2L
D105	8-719-910-65	DIODE HZ6B2L
D106	8-719-910-65	DIODE HZ6B2L
D201	8-719-107-94	DIODE 1SS202-1
D202	8-719-107-94	DIODE 1SS202-1
D203	8-719-910-65	DIODE HZ6B2L
D204	8-719-910-65	DIODE HZ6B2L
D205	8-719-910-65	DIODE HZ6B2L
D206	8-719-910-65	DIODE HZ6B2L
D301	8-719-107-94	DIODE 1SS202-1
D302	8-719-107-94	DIODE 1SS202-1
D303	8-719-107-94	DIODE 1SS202-1
D304	8-719-900-24	DIODE SLP24B
D305	8-719-910-94	DIODE HZ9B1L
D306	8-719-900-24	DIODE SLP24B
D601	8-719-910-63	DIODE HZ6A3L
D602	8-719-910-94	DIODE HZ9B1L
D603	8-719-107-94	DIODE 1SS202-1
D801	8-719-107-94	DIODE 1SS202-1
D802	8-719-107-94	DIODE 1SS202-1
D803	8-719-910-77	DIODE HZ7C1L
D901	8-719-910-65	DIODE HZ6B2L
D902	8-719-910-65	DIODE HZ6B2L
D903	8-719-200-02	DIODE 10E-2
D904	8-719-910-42	DIODE HZ24-2L
D905	8-719-910-42	DIODE HZ24-2L
D906	8-719-910-63	DIODE HZ6A3L
D907	8-719-107-94	DIODE 1SS202-1
D908	8-719-910-65	DIODE HZ6B2L
D909	8-719-107-94	DIODE 1SS202-1

ELECTRICAL PARTS

Ref.No.	Part No.	Description
EH	1-543-272-11	HEAD, ERASE
IC301	8-759-910-75	IC LF353DP
IC302	8-759-745-60	IC NJM4560D
IC303	8-759-910-75	IC LF353DP
IC304	8-759-145-58	IC UPC4558C
IC305	8-759-602-33	IC CX20197
IC306	8-759-700-04	IC NJM2043D-D
IC307	8-759-602-33	IC CX20197
IC308	8-759-145-58	IC UPC4558C
IC309	8-759-600-02	IC M5218L
IC310	8-759-157-52	IC UPC575C2
IC601	8-759-900-72	IC NE5532P
IC602	8-759-909-33	IC LM311P
IC701	8-759-240-40	IC TC4040BP
IC703	8-759-205-86	IC TC5504AP-3
IC704	8-759-140-11	IC UPD4011BC
IC705	8-759-240-13	IC TC4013BP
IC706	8-759-240-69	IC TC4069UBP
IC707	8-759-240-13	IC TC4013BP
IC708	8-759-203-68	IC TC74HC4040P
IC711	8-759-	IC
IC712	8-759-	IC
IC713	8-759-	IC
IC714	8-759-	IC
IC715	8-759-	IC
IC716	8-759-	IC
IC717	8-759-	IC
IC801	8-751-930-00	IC CX-193
IC802	8-759-700-42	IC NJM2904D
IC803	8-759-700-42	IC NJM2904D
IC804	8-759-178-05	IC UPC78L05
J301	1-507-770-00	JACK (LARGE TYPE)
L901	1-408-080-00	MICRO INDUCTOR 100UH
LV101	1-407-288-00	MICRO INDUCTOR 4.7MMH
LV102	1-407-289-00	MICRO INDUCTOR 6.8MMH
LV103	1-407-240-00	MICRO INDUCTOR 22MMH
LV104	1-407-240-00	MICRO INDUCTOR 22MMH
LV201	1-407-288-00	MICRO INDUCTOR 4.7MMH
LV202	1-407-289-00	MICRO INDUCTOR 6.8MMH
LV203	1-407-240-00	MICRO INDUCTOR 22MMH
LV204	1-407-240-00	MICRO INDUCTOR 22MMH
M801	8-835-152-01	MOTOR, DC (DNF-0514A)
ME101	1-520-484-11	METER, LEVEL
ME201	1-520-484-21	METER, LEVEL
PH	8-825-557-60	HEAD, PB
PL1	1-518-299-91	LAMP, PILOT
PL2	1-518-299-91	LAMP, PILOT
Q101	8-729-334-58	TRANSISTOR 2SC1345
Q102	8-729-334-58	TRANSISTOR 2SC1345
Q103	8-729-334-58	TRANSISTOR 2SC1345
Q104	8-729-334-58	TRANSISTOR 2SC1345
Q105	8-729-201-04	TRANSISTOR 2SC2878
Q106	8-729-201-04	TRANSISTOR 2SC2878
Q107	8-729-201-04	TRANSISTOR 2SC2878
Q108	8-729-201-04	TRANSISTOR 2SC2878
Q109	8-729-201-04	TRANSISTOR 2SC2878

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q201	8-729-334-58	TRANSISTOR 2SC1345
Q202	8-729-334-58	TRANSISTOR 2SC1345
Q203	8-729-334-58	TRANSISTOR 2SC1345
Q204	8-729-334-58	TRANSISTOR 2SC1345
Q205	8-729-201-04	TRANSISTOR 2SC2878
Q206	8-729-201-04	TRANSISTOR 2SC2878
Q207	8-729-201-04	TRANSISTOR 2SC2878
Q208	8-729-201-04	TRANSISTOR 2SC2878
Q209	8-729-201-04	TRANSISTOR 2SC2878
Q301	8-729-606-33	TRANSISTOR 2SC2603-F
Q302	8-729-606-33	TRANSISTOR 2SC2603-F
Q303	8-729-606-33	TRANSISTOR 2SC2603-F
Q304	8-729-606-33	TRANSISTOR 2SC2603-F
Q305	8-729-606-33	TRANSISTOR DTA144ES
Q306	8-729-900-65	TRANSISTOR DTA144ES
Q601	8-729-606-33	TRANSISTOR 2SC2603-F
Q602	8-729-606-33	TRANSISTOR 2SC2603-F
Q603	8-729-606-33	TRANSISTOR 2SC2603-F
Q604	8-729-900-89	TRANSISTOR DTC144ES
Q801	8-729-606-33	TRANSISTOR 2SC2603-F
Q802	8-729-180-92	TRANSISTOR 2SD809-K
Q803	8-729-180-92	TRANSISTOR 2SD809-K
Q804	8-729-900-65	TRANSISTOR DTA144ES
Q805	8-729-900-65	TRANSISTOR DTA144ES
Q806	8-729-900-65	TRANSISTOR DTA144ES
Q807	8-729-900-65	TRANSISTOR DTA144ES
Q808	8-729-900-89	TRANSISTOR DTC144ES
Q901	8-729-141-43	TRANSISTOR 2SD414
Q902	8-729-167-62	TRANSISTOR 2SC2676
Q903	8-729-167-62	TRANSISTOR 2SC2676
Q904	8-729-203-02	TRANSISTOR 2SK30A-0
Q905	8-729-113-82	TRANSISTOR 2SA1138
Q906	8-729-113-82	TRANSISTOR 2SA1138
Q907	8-729-154-83	TRANSISTOR 2SB548
Q908	8-729-203-02	TRANSISTOR 2SK30A-0
Q909	8-729-307-58	TRANSISTOR 2SC1775-A
Q910	8-729-201-04	TRANSISTOR 2SC2878-B
Q911	8-729-201-04	TRANSISTOR 2SC2878-B
Q912	8-729-900-67	TRANSISTOR DTA124XS
Q913	8-729-606-33	TRANSISTOR 2SC2603-F
Q914	8-729-606-33	TRANSISTOR 2SC2603-F
Q915	8-729-606-33	TRANSISTOR 2SC2603-F
Q916	8-729-606-33	TRANSISTOR 2SC2603-F
Q917	8-729-606-33	TRANSISTOR 2SC2603-F
Q918	8-729-201-04	TRANSISTOR 2SC2878
R101	1-215-441-00	METAL 6.8K 1% 1/6W
R102	1-215-441-00	METAL 6.8K 1% 1/6W
R103	1-215-403-81	METAL 180 1% 1/6W
R104	1-215-403-81	METAL 180 1% 1/6W
R107	1-214-761-00	METAL 22K 1% 1/4W
R108	1-214-689-	METAL 22 1% 1/4W
R109	1-214-689-	METAL 22 1% 1/4W
R110	1-214-753-00	METAL 10K 1% 1/4W
R111	1-214-753-00	METAL 10K 1% 1/4W
R112	1-214-777-00	METAL 100K 1% 1/4W
R113	1-214-737-00	METAL 2.2K 1% 1/4W
R114	1-214-737-00	METAL 2.2K 1% 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R115	1-214-753-00	METAL 10K 1% 1/4W
R116	1-214-755-00	METAL 12K 1% 1/4W
R117	1-214-755-00	METAL 12K 1% 1/4W
R118	1-214-741-00	METAL 3.3K 1% 1/4W
R119	1-214-777-00	METAL 100K 1% 1/4W
R120	1-214-715-	METAL 270 1% 1/4W
R121	1-214-753-00	METAL 10K 1% 1/4W
R122	1-214-777-00	METAL 100K 1% 1/4W
R123	1-214-777-00	METAL 100K 1% 1/4W
R124	1-214-769-00	METAL 47K 1% 1/4W
R125	1-214-769-00	METAL 47K 1% 1/4W
R126	1-214-741-00	METAL 3.3K 1% 1/4W
R128	1-214-741-00	METAL 3.3K 1% 1/4W
R129	1-214-777-00	METAL 100K 1% 1/4W
R131	1-214-737-00	METAL 2.2K 1% 1/4W
R132	1-214-745-00	METAL 4.7K 1% 1/4W
R133	1-214-777-00	METAL 100K 1% 1/4W
R134	1-214-705-00	METAL 100 1% 1/4W
R136	1-214-719-00	METAL 390 1% 1/4W
R137	1-214-761-00	METAL 22K 1% 1/4W
R138	1-214-777-00	METAL 100K 1% 1/4W
R139	1-214-705-00	METAL 100 1% 1/4W
R140	1-214-767-00	METAL 39K 1% 1/4W
R141	1-214-769-00	METAL 47K 1% 1/4W
R142	1-247-815-00	CARBON 220 5% 1/6W
R143	1-247-879-00	CARBON 100K 5% 1/6W
R144	1-214-767-00	METAL 39K 1% 1/4W
R145	1-214-737-00	METAL 2.2K 1% 1/4W
R146	1-214-753-00	METAL 10K 1% 1/4W
R147	1-214-757-00	METAL 15K 1% 1/4W
R148	1-214-753-00	METAL 10K 1% 1/4W
R149	1-214-737-00	METAL 2.2K 1% 1/4W
R150	1-214-761-00	METAL 22K 1% 1/4W
R151	1-214-872-00	METAL 2.2K 1% 1/2W
R152	1-214-709-00	METAL 150 1% 1/4W
R153	1-214-785-00	METAL 220K 1% 1/4W
R154	1-247-859-00	CARBON 15K 5% 1/6W
R155	1-214-709-00	METAL 150 1% 1/4W
R156	1-214-761-00	METAL 22K 1% 1/4W
R157	1-214-785-00	METAL 220K 1% 1/4W
R158	1-247-859-00	CARBON 15K 5% 1/6W
R161	1-214-765-00	METAL 33K 1% 1/4W
R162	1-214-844-00	METAL 150 1% 1/2W
R163	1-214-876-00	METAL 3.3K 1% 1/2W
R164	1-214-779-00	METAL 120K 1% 1/4W
R165	1-214-739-00	METAL 2.7K 1% 1/4W
R166	1-214-739-00	METAL 2.7K 1% 1/4W
R167	1-214-739-00	METAL 2.7K 1% 1/4W
R168	1-214-788-00	METAL 300K 1% 1/4W
R169	1-247-859-00	CARBON 15K 5% 1/6W
R170	1-214-729-00	METAL 1K 1% 1/4W
R171	1-214-777-00	METAL 100K 1% 1/4W
R172	1-214-723-00	METAL 560 1% 1/4W
R173	1-214-761-00	METAL 22K 1% 1/4W
R174	1-214-777-00	METAL 100K 1% 1/4W
R175	1-214-785-00	METAL 220K 1% 1/4W
R176	- - -	METAL 300 1% 1/4W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV105	1-226-439-00	RES, VAR, CARBON 20K
RV201	1-230-949-11	RES, VAR, CARBON 20K/20K
RV202	1-224-252-XX	RES, ADJ, METAL GLAZE 10K
RV203	1-224-252-XX	RES, ADJ, METAL GLAZE 10K
RV204	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K
RV205	1-226-439-00	RES, VAR, CARBON 20K
RV301	1-224-491-00	RES, ADJ, METAL FILM 22K
RV801	1-224-661-00	RES, ADJ, METAL GLAZE 50K
RV802	1-224-661-00	RES, ADJ, METAL GLAZE 50K
RY301	1-515-586-11	RELAY
RY302	1-515-586-11	RELAY
RY901	1-515-587-11	RELAY
RY902	1-515-587-11	RELAY
S1	1-516-310-00	LEVER SLIDE SWITCH
S2	1-516-310-00	LEVER SLIDE SWITCH
S3	1-516-310-00	LEVER SLIDE SWITCH
S4	1-516-310-00	LEVER SLIDE SWITCH
S5	1-554-600-11	SWITCH, ROTARY
S6	1-554-600-11	SWITCH, ROTARY
S7	1-554-600-11	SWITCH, ROTARY
S8	1-516-720-00	SWITCH, PUSH (2 KEY)
S9	1-516-720-00	SWITCH, PUSH (2 KEY)
S10	1-570-390-	SWITCH, SLIDE
S11	1-516-777-XX	SLIDE SWITCH
S12	1-516-503-00	SLIDE SWITCH
S13	1-516-777-XX	SLIDE SWITCH
S14	1-553-004-00	SWITCH, SLIDE
S15	1-553-570-00	SWITCH, MICRO
S16	1-553-571-00	SWITCH, MICRO
SP1	1-502-541-00	SPEAKER, CONE
TCH	8-825-622-10	HEAD, RECORDING RF284-22
X701	1-567-510-11	VIBRATOR, CRYSTAL
X801	1-567-509-11	VIBRATOR, CRYSTAL

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-506-528-11	PLUG, CONNECTOR 7P
3-329-235-01	INDIVIDUAL CARTON
3-533-950-00	STRAP, SHOULDER
3-542-892-00	BAG, PROTECTION
3-542-894-01	CUSHION, (RIGHT)
3-542-895-01	CUSHION, (LEFT)
3-542-923-00	CUSHION, LOWER
3-542-924-	CUSHION, SIDE
* 3-701-630-00	BAG, POLYETHYLENE
3-760-761-11	MANUAL, INSTRUCTION
* 3-542-925-00	HOLDER
9-910-999-31	